website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

LCD TV
SERVICE MANUAL

CHASSIS : ML-03JA

MODEL : 37LP1DA-ZA

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

CONTENTS

SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to ML-03JC chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

(1) Temperature: 25°C ± 5°C (CST 40°C ± 2°C)
(2) Humidity: 65% ± 10%
(3) Power: Standard input voltage (AC 100-240V, 50/60Hz)
(4) Measurement must be performed after heat-run more than 20min.
(5) Adjusting standard for this chassis is followed a special standard.

3. Test and Inspection Method

3.1 Capacity : Follow LG electronics TV Testing Standard.

3.2 Another Requite Standard
EMI : Following CE Standard(EN 55020)
SAFETY : Following CB Standard(EN55013)

3.General Specification

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Video Input applicable system	1) PAL/SECAM-BG 2) PAL/SECAM-DK 3) PAL-I 4) SECAM-L/L' 5) NTSC-M				EU/Non-EU(PAL Market)
		6) PAL-N/M 7) NTSC-M				6) 7) South America Market 7) South America except other NTSC Market
2.	AV input System	1) PAL 2) SECAM 3) NTSC 3.58 / 4.43				
3.	Available Channel	1) VHF : E5 - E12 UHF : E21 - E69 CATV : S1 - S20 HYPER : S21 - S41				PAL
		2) L/L' VHF : B, C, D				France
		3) VHF : 2~13 UHF : 14~69 CATV : 1~125				NTSC
		4) DVB-T : UHF Other : S42~S47 (U1 U6)				ID TV
4.	PC Signal Input (RGB Input)	VGA SVGA XGA(1024 x 768) WXGA (1360x 768)				Refer to Table 1
5.	Input Voltage	AC 100 ~ 240 V/50Hz, 60Hz				
6.	Market	EU / Non EU				
7.	Active Display Size (Diagonal)		H: 697.685 V: 392.256		[mm]	Active Size

No	Item		Specification				Remark
			Min	Typ	Max	Unit	
8.	Operating Temperature		0		40	Deg	Humidity : 50% (Temp : 40°C)
9.	Operating Humidity				85	%	
10.	Storage Temperature		-20		60	Deg	
11.	Storage Humidity				85	%	
12.	LCD Panel	Model Name					LG Philips LCD
		Feature	TFT Active Matrix LCD panel				
		Outline Dimension	877.0 x 516.8 x 55.5 [mm]				
		Aspect Ratio	Wide (16:9)				
		Resolution	1366 x 768				
		Pixel Pitch	0.200 x 0.600 x RGB				[mm]
		Weight		TBD g			
13.	Lamp	Backlight System	EEFL type				Life Time :
		Quantity				EA	Until brightness of lamp
		Power Consumption		88.8	TBD	W	goes to half of its
		Life Time	50,000			hrs	initial brightness.
		Operating Voltage				Vrms	
		Operating Current				mA	
14.	Weight		21.5	22.5	23.5	kg	TV + Speaker
15.	Size of Outline		(H)501.6mmX(W)1051mmX(D)109mm			mm	TV + Speaker
16.	SPEAKER	Impedance		8		Ω	Tweeter - 8 Ω
	Regularity	Output Power			15+15	W	
17.	Power On Time				9	Sec	Stand by power on time
18.			RS-232C		1 EA		S/W Download
			Half Scart		1 EA		EU
			Full Scart		1 EA		EU
			RF Input(Analogue)		1 EA 2 EA		UK Non UK(2 TUNER)
			DTV		ID TV		Only UK
			AV Input		1(EU) 2(Non EU/NTSC)		Side Rear/Side
			S-AV Input		1		Rear
			Component input		1 EA		Rear (option)
			Component Audio L,R		1 EA		Rear
			IR Input		1: Cable IR(Cable IR First of all)		Rear
			PERI TV Connector		Full SCART : 1 Half Scart : 1		Rear (EU)
			DVI Digital Input		1 EA		DVI-I
			DVI Analogue Input				RGB Input
			HDMI Input		1 EA(2 slot)		
			X-STUDIO		0		
			DVI Audio Input		1 EA		Stereo
			A/V Out		1 EA		Non EU/NTSC
			2 Carrier Stereo		BG, DK		
			NICAM Stereo		BG, I, LL'		

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
		2 Carrier Dual		BG, DK		
		NICAM Dual		BG, I, LL'		
		DW(Double Window) Mode		Enable		
		MW(Multi Window) Mode		Enable		
		Film Mode		Enable		
		Progressive Scan		Enable		
		Motion Detection		Enable		
		Dolby Virtual		Enable		
		SRS WOW		Enable		
		Ez-pip		Enable		
19.	Power System	PFC(power factor correction) & SMPS				

<Table 1.> RGB and DVI-PC Input Mode

- Vertical Frequency : Standard ± 0.5 Hz
- Vertical Lines : Standard ± 7Lines

No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	Remark
	PC					
1.	720x400	31.469	70.08	28.32	DOS	
2.	720x400	37.927	85.03	35.50	DOS	
3.	640x480	31.469	59.94	25.17	VESA(VGA)	
4.	800x600	37.879	60.31	40.00	VESA(SVGA)	
5.	1024x768	48.363	60.00	65.00	VESA(XGA)	
6.	1280x768	47.693	60.00	80.125	VESA(WXGA)	svc option
7.	1360x768	49.020	60.00	84.625	VESA(WXGA)	

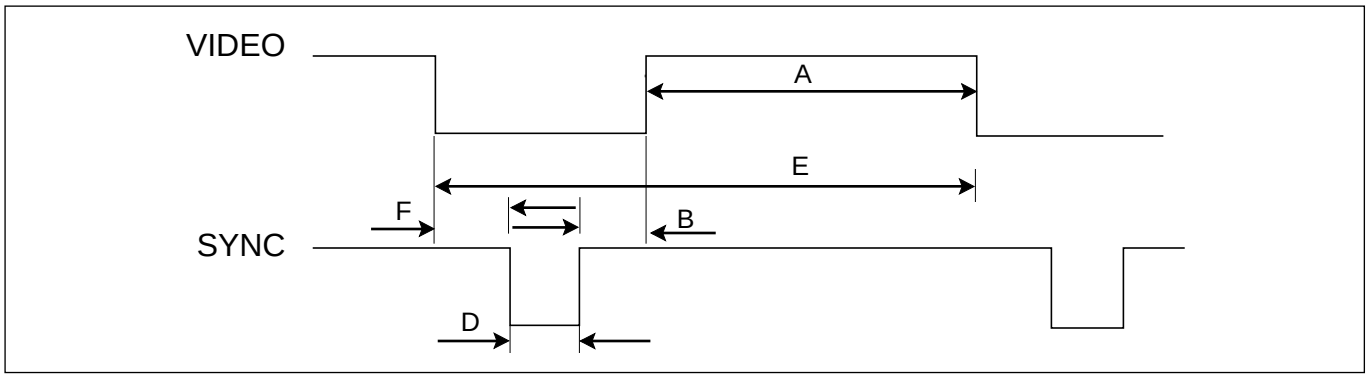
< Table 2.> Scart Arrangement 1.(Full Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 KΩ
2	Audio Input B (right)	0.5 Vrms	> 10 KΩ
3	Audio Output A (left)	0.5 Vrms	< 1 KΩ
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 KΩ
7	Blue input	0.7 V	75 Ω
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 KΩ
9	Ground (Green)	-	-
10	Comms Data 2		
11	Green input	0.7 V	75 Ω
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input	0.7 V	75 Ω
16	RGB Switching Control	High (1 - 3V) - RGB Low (0 - 0.4V) -Composite	75 Ω
17	Ground (Video input & Output)	-	-
18	Ground (RGB Switching Control)	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

< Table 3.> Scart Arrangement 2.(Half Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 KΩ
2	Audio Input B (right)	0.5 Vrms	> 10 KΩ
3	Audio Output A (left)	0.5 Vrms	< 1 KΩ
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 KΩ
7	-	-	-
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 KΩ
9	Ground (Green)	-	-
10	Comms Data 2		
11	-	-	-
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input	0.7 V	75 Ω
16	-	-	-
17	Ground (Video input & Output)	-	-
18	-	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

TIMING CHART



MODE	H / V	Sync Polarity	Dot Clock [MHz]	Frequency [kHz]/[Hz]	Total Period(E)	Display (A)	Front Porch (B)	Sync (D)	Back Porch(F)	Resolution
1	H(Pixels)	+	25.175	31.468	800	640	16	96	48	640 x 350
	V(Lines)	-		70.090	449	350	37	2	60	
2	H(Pixels)	-	28.324	31.469	900	720	18	108	54	720 X 400
	V(Lines)	+		70.082	449	400	13	2	34	
3	H(Pixels)	-	25.175	31.469	800	640	16	96	48	640 x 480
	V(Lines)	-		59.94	525	480	10	2	33	
4	H(Pixels)	-	31.5	37.5	840	640	16	64	120	640 x 480
	V(Lines)	-		75	500	480	1	3	16	
5	H(Pixels)	-	36.0	43.269	832	640	56	56	80	640 x 480
	V(Lines)	-		85.008	509	480	1	3	25	
6	H(Pixels)	+	40.0	37.879	1056	800	40	128	88	800 x 600
	V(Lines)	+		60.317	628	600	1	4	23	
7	H(Pixels)	+	49.5	46.875	1056	800	16	80	160	800 x 600
	V(Lines)	+		75.0	625	600	1	3	21	
8	H(Pixels)	+	56.25	53.674	1048	800	32	64	152	800 x 600
	V(Lines)	+		85.061	631	600	1	3	27	
9	H(Pixels)	+/-	57.283	49.725	1152	832	32	64	224	832 x 624
	V(Lines)	+/-		74.55	667	624	1	3	39	
10	H(Pixels)	-	65.0	48.363	1344	1024	24	136	160	1024 x 768
	V(Lines)	-		60.004	806	768	3	6	29	
11	H(Pixels)	+	78.75	60.023	1312	1024	16	96	176	1024 x 768
	V(Lines)	+		75.029	800	768	1	3	28	
12	H(Pixels)	+	108.0	63.981	1688	1280	48	112	248	1280 x 1024
	V(Lines)	+		60.02	1066	1024	1	3	38	
13	H(Pixels)	+	79.50	47.776	1664	1280	64	128	192	1280 x 768
	V(Lines)	-		59.870	798	768	3	7	20	(SVC OP TION)

ADJUSTMENT INSTRUCTION

1. Scope of Application

This standard is applied to the 37" Wide I-DTV manufactured in the monitor factory or its equivalents.

2. Adjustment

2.1 Summary of adjustment

We took a measure so that adjustment can be automatically done by use of factory automation equipment but manual adjustment will be done in principle where error occurs.

2.2 Order of adjustment (For adjustment standard, adjustment commands, sees Command Table)

2.2.1 Adjustment Line Process

- Connect input signal to the 24Pin DVI-I Jack by using the D-sub to DVI-I Cable.
- Select INPUT value as DVI-PC.
- Adjustment preparation: Check adjustment commands properly operate and operation status by mode
- Check a normal gray color is embodied by entering the 16 Gray Scale pattern.

2.2.2 Total Assembly Line Process

- Preliminary operation: Test-run for more than 15 minutes with signal maintained.
- Connect input signal to the 24Pin DVI-I Jack by using the D-sub to DVI-I Cable.
- Select INPUT value as DVI-PC.
- Default value before adjustment: Contrast shipment conditions, Brightness shipment conditions.
  (Setting to PSM-Standard)

2.2.3 Operation status check

2.2.3.1 Operation mode: Check designated mode accurately operates.

2.2.3.2 Check of adjustment status and operation: Check the screen adjustment standards are met.

- Check of Analog/Digital screen status: Check the screen status is good in following mode.:

Designation mode:

- 800x600(75Hz)-No.2 mode,1024x768(60Hz)-No.12 mode, 1360x768 (60Hz)-No. 17 mode

2.2.3.3 Check of H/V Position, Clock, Clock Phase Auto Calibration operation.

Enter same pattern as for adjustment in the Mode 10(1024x768,60Hz) and check that normal operation is done by varying H/V Position, Clock and Clock Phase respectively.

Check that normal operation is done by operating Auto Calibration with the Clock and Clock Phase varied.

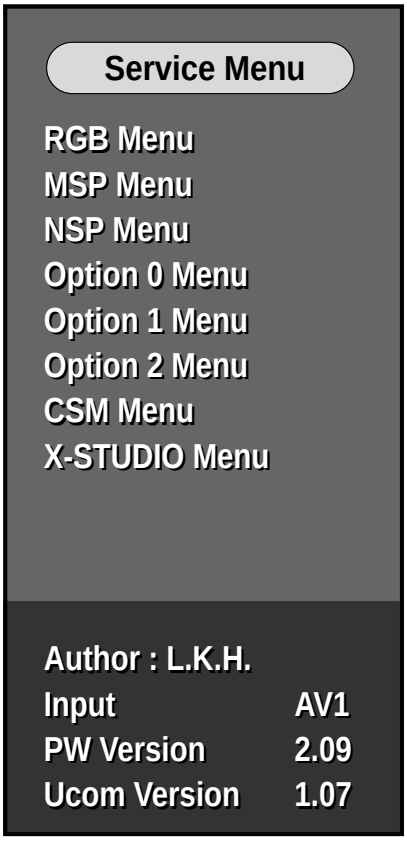
*Check of OPTION DATA Setting (SVC MODE)

- Explanation of SVC Menu EEPROM Option items

No	Item	Condition	Remark
Option0			
1	200PR	0	0 : 100 Program 1 : 200 Program
2	China + Aus	0	0 : Other area OFF 1 : China, Australia ON
3	Teletext	1	0 : Text Off 1 : Text On
4	Top	1	0 : TOP OFF 1 :TOP ON
5	ACMS	1	0 : ACMS On 1 : ACMS Off
6	I/II Save	0	0 : Ch. Sound Non Memory 1 : Ch. Sound Memory
7	A2 Stereo	1	0 : FM Stereo/Dual Automatic recognition 1 : For FM, only MONO is recognized
8	System	BGIDK BGIDKM	BGIDK : BG/I/DK BGIDKM : BG/I/DK/M
Option1			
1	Scart	1	0 : SCART OFF 1 : SCARTON
2	Sound Curve	0	0 : Other area OFF 1 : Middle Asia Vol ON
3	HDEV	0	0 : HDEV OFF 1 : HDEV ON

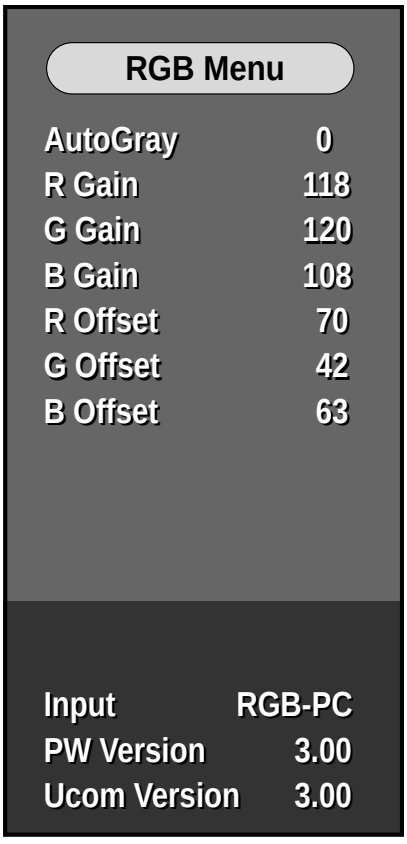
No	Item	Condition	Remark
4	OSD Lan	0	0 : Eng Only 1 : 1 : 7 countries (7 countries in West Europe) 2: 11 countries (West Europe + Northern Europe) 3 : Farsi 4: Arab 5: Urdu6 : English Hindi 7 : East Asia4 8 : English Tha 9 : English China
Option2			
1	Download	0	0: Download disable 1: Download enable
2	SVC CURSOR	0	0: navigation keys disable 1: navigation keys enable
3	RS232C	1	0 : STI5516 1 : PW181 2 : M2
4	AI Control	ON	ON : AI ON OFF : AI OFF
5	TEXT Language	0	0 : WEST EU 1 : EAST EU1 2 : TURKEY EU 3 : EAST EU2 4 : CYRILLIC1 5 : CYRILLIC2 6 : CYRILLIC3 7 : TRUK GRE1

1. Service Menu Overview



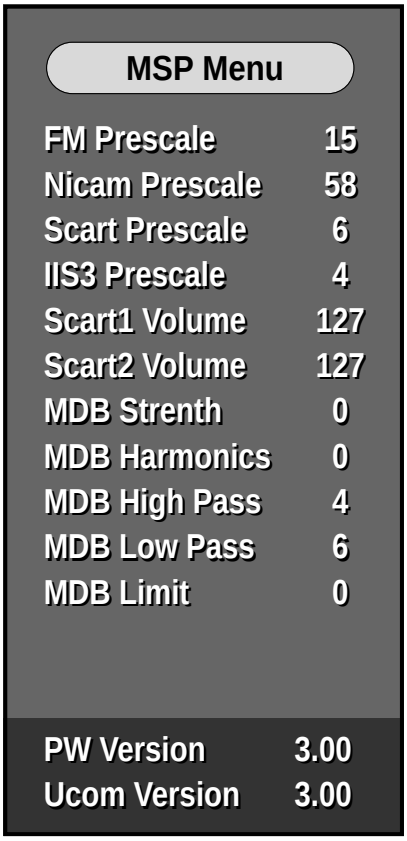
If you press the menu button of remote control and the menu key of keypad till more 5 seconds simultaneously.
The service menu OSD will appear.
This service menu contain the RGB, MSP, NSP menus and 3 optional menus that is Option 0,1,2.

2. RGB Menu



If you want to correct the difference of colour gain of AD converter or set the PC mode R,G,B gain and componet Y,U,V gain you use the AutoGray.
First of all, You carry out 16Gray type display (XGA 60HZ) in PC Mode of TV set.
Secondly, You change the AutoGray data from '0' to '1'.
By doing that, the color setting of TV set is automatically done.
The RGB gain and offset values are not fixed , they get changed every time.

3. MSP Menu



FM Prescale decides input signal level of FM audio signal.
It is related to main Volume.

Nicam Prescale decides input signal level of Nicam audio signal.

Scart Prescale decides output signal level to speaker volume which is coming from SCART input.

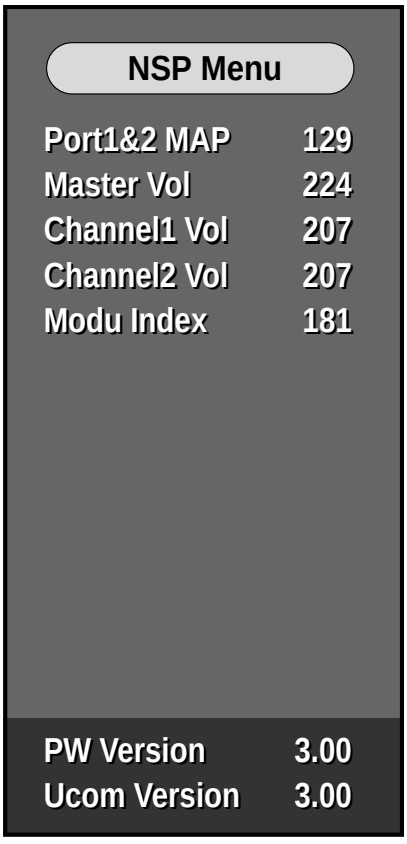
IIS3 Prescale decides signal level of IIS3 signal line.
It decides output signal level to speaker volume which is coming from Digital sound input.

Scart1 Volume decides output level of Scart1(Full).
Scart2 Volume decides output level of Scart2(Half).

MDB means medium and low bass.
And default data is the same as shown in picture

Note : *Don't change these settings without consulting audio experts or senior research engineers.*

4. NSP Menu



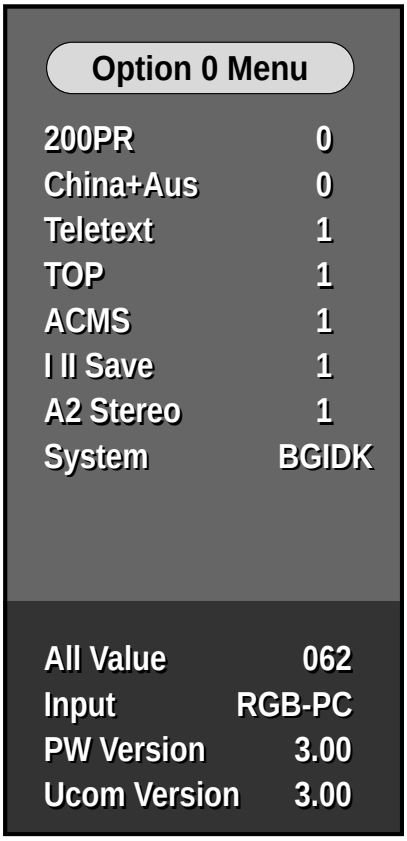
Port1&2 MAP means the balance of sound between right and left speaker.

Master Vol decides the main volume of each mode.
Channel1 Vol decides the volume of Left channel.

Channel2 Vol decides the volume of Right channel.
Modu Index : Prescaler value
And default data is the same as shown in picture

Note : *Don't change these settings without consulting audio experts or senior research engineers.*

5. Option 0 Menu



200PR : In China, You have to change 200PR data to '1' because China has many channels in broadcast system.

China+Aus : In China or Australia, you have to change China+Aus data to '1' because these two countries have different broadcast systems.

Teletext : If you want to see broadcasted text then you have to change Teletext data to '1'.

TOP : If you want to use the Top option in Teletext, you have to change Top data to '1'.

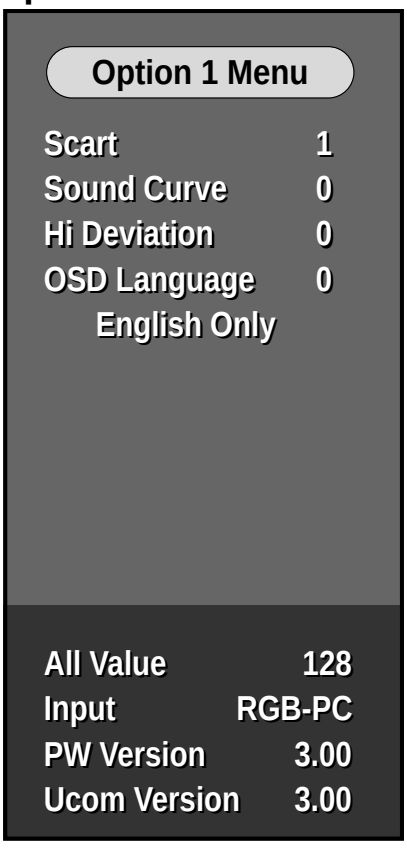
ACMS : If you want to use the auto channel memory system for storing channels while auto programming, you have to change ACMS data to '1'.

I IISave : In Europe and Eastern Europe, you have to change 'I II Save' to '0'. For other areas it is '1'.

A2 Stereo : A2 STEREO means GERMAN 2-carrier system(DUAL FM System).

System : The system setting is stored according to locations. If the set is used in europe or eastern europe except France then system setting is set to be BG/I/DK.

6. Option 1 Menu



Scart : Normally this data is set to '1' in Europe.

Sound curve : the value of this feature is set according to the region that is 0 for europe and 1 for middle asia and other regions.

Hi Deviation : In the region where sound signal is over modulated causing damage to sound system we set the value for Hi Deviation to 1.

OSD Language : You can select the language of OSD display as per your convenience, for example '0' for English.

7. Option 2 Menu

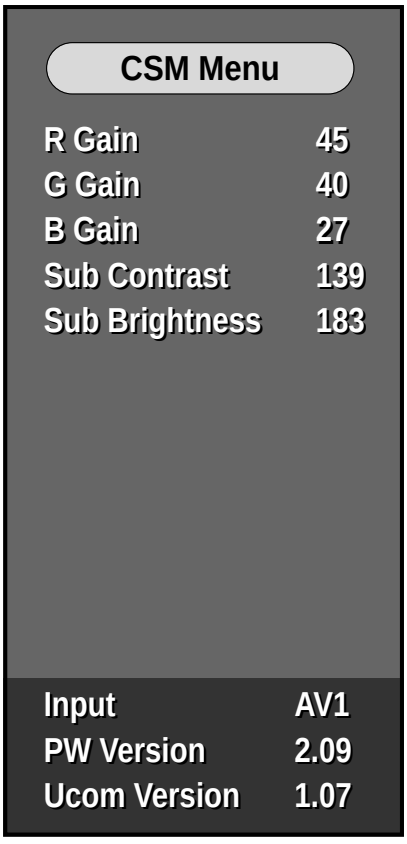
DownLoad : While downloading is performed for updating the software the main Micom should not communicate with other Ics therefore to cut off the communication between main Micom and other Ics we set the value of Download to '1'.

SVC Cursor : This setting disables or enables the working of navigation(arrow) keys while servicing the set. The value is set to '0' for disable and '1' for enable.

RS232C : This option is used while updating Scalar, uController(M2) or Mpeg decoder Ics, it works as a switch between these three.

Text Languange : You can select the language of Text display as per your convenience, like WEST EU etc.

8. CSM Menu



RGB Gain : These fields represents the setting of colour gain selected by user. It can also be changed through OSD display

Sub Contrast : It is used to set the value of Sub Contrast

Sub Brightness : It is used to set the value of Sub Brightness

9. X-Studio Menu

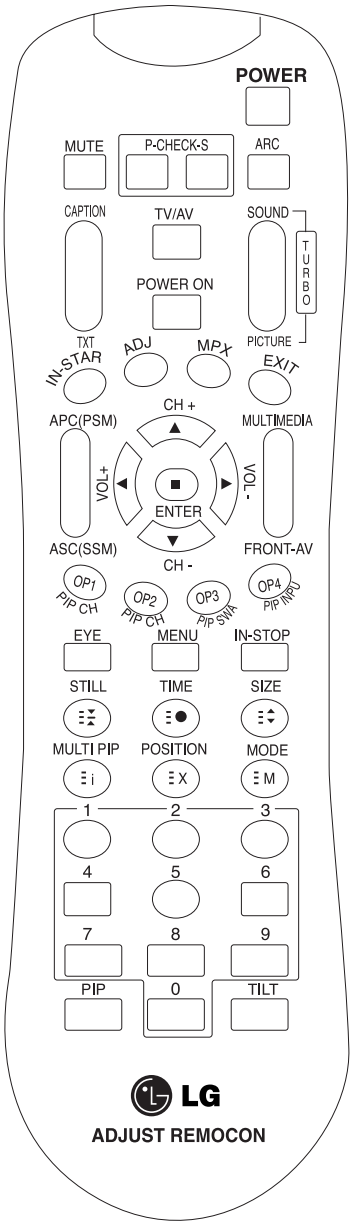
X-Studio Version : It shows the programme version of X-studio.

X-Studio Language : This field shows the X-studio OSD language.

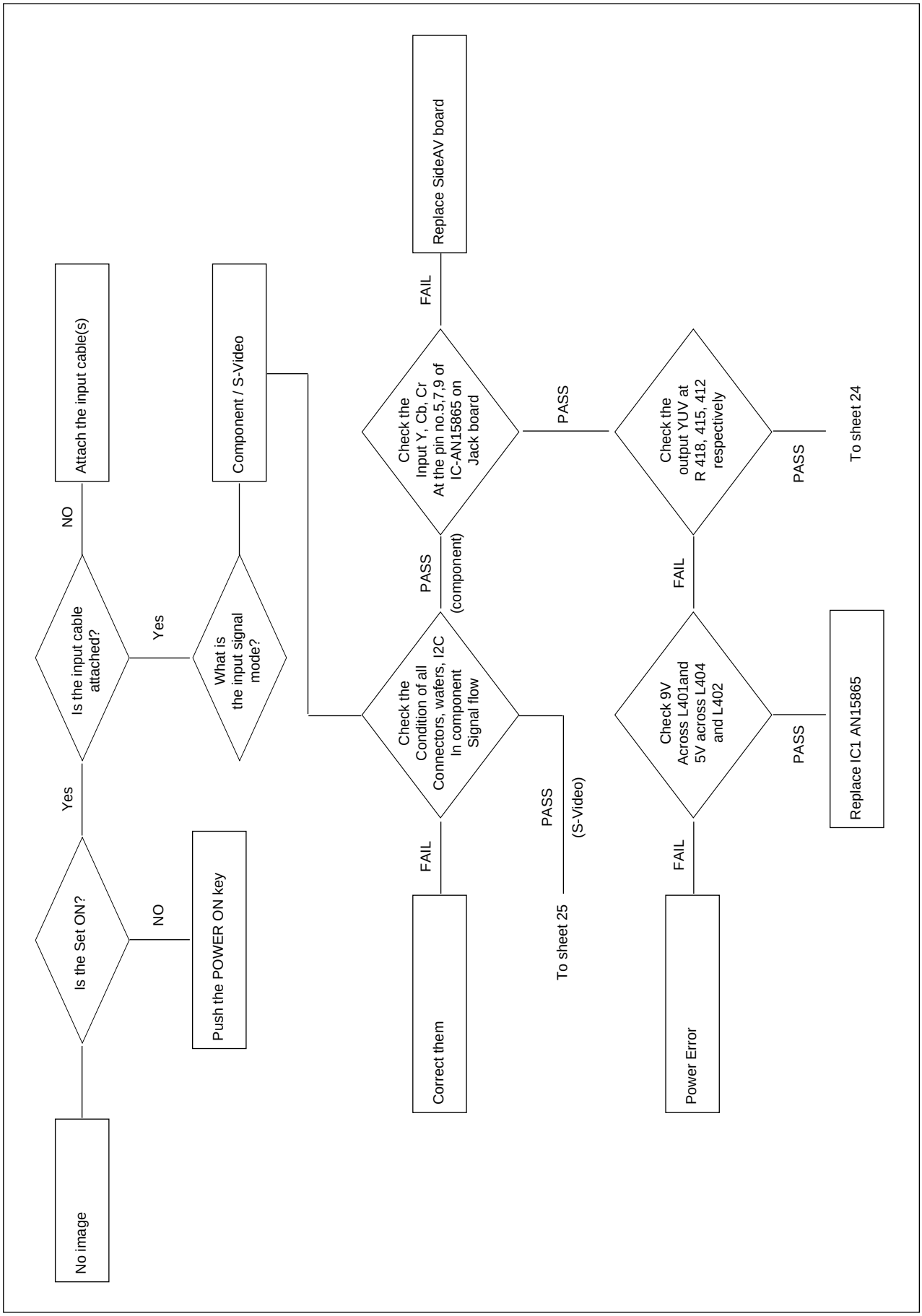
X-Studio ISP : This field shows that X-studio memory will be ready for ISP after selecting this option and pressing ok

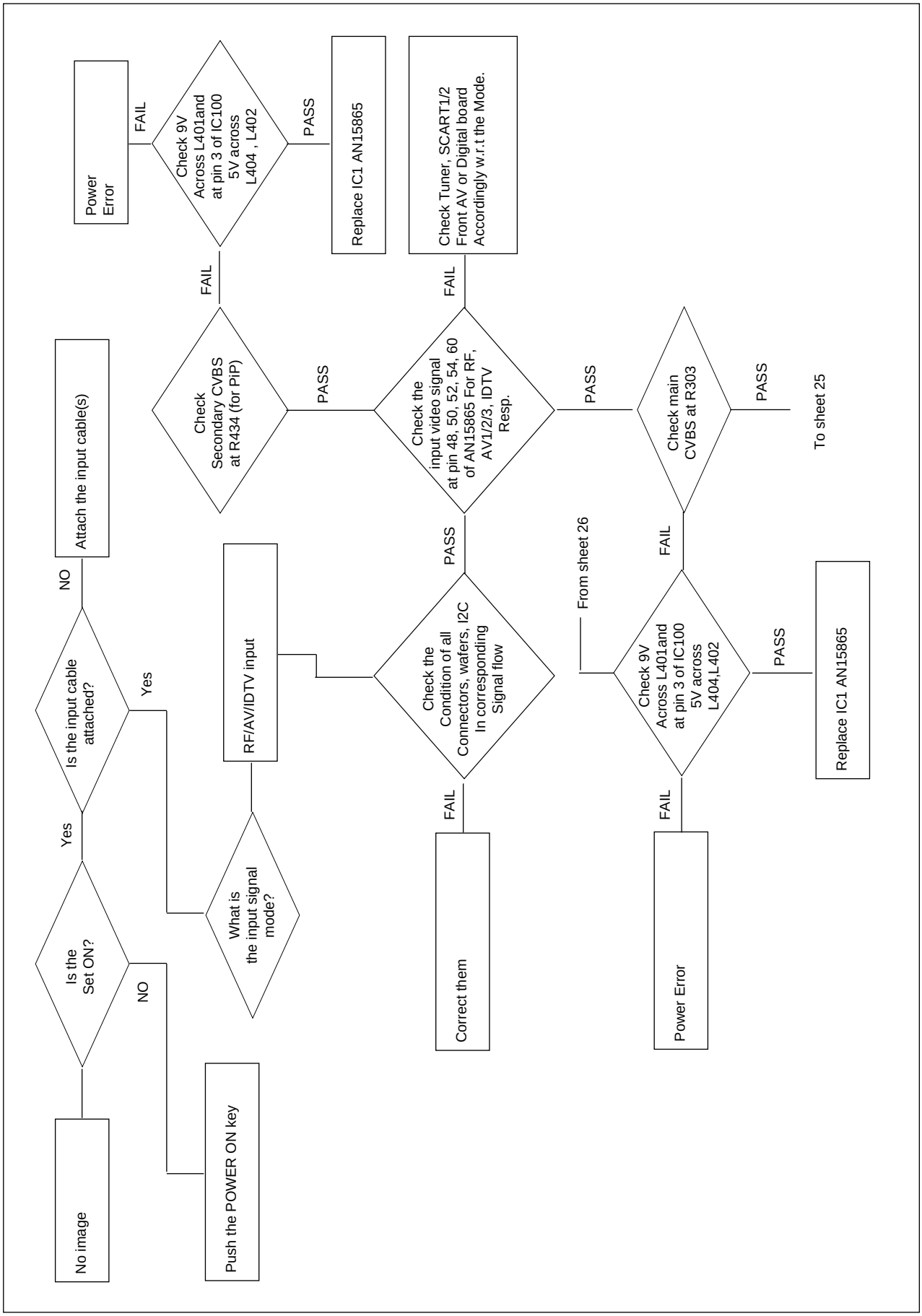
SVC REMOCON

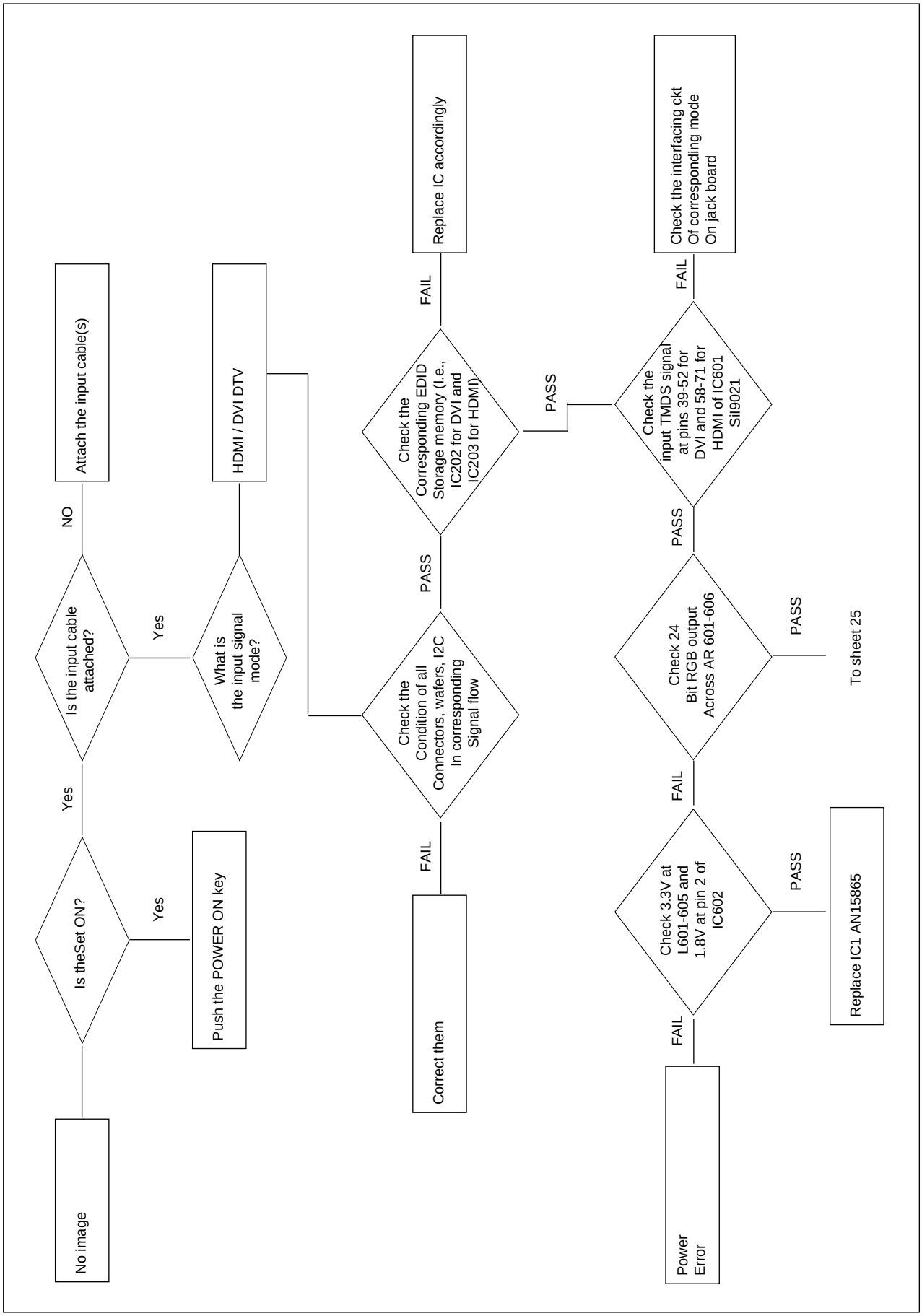
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start →mute →Adjust →AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	

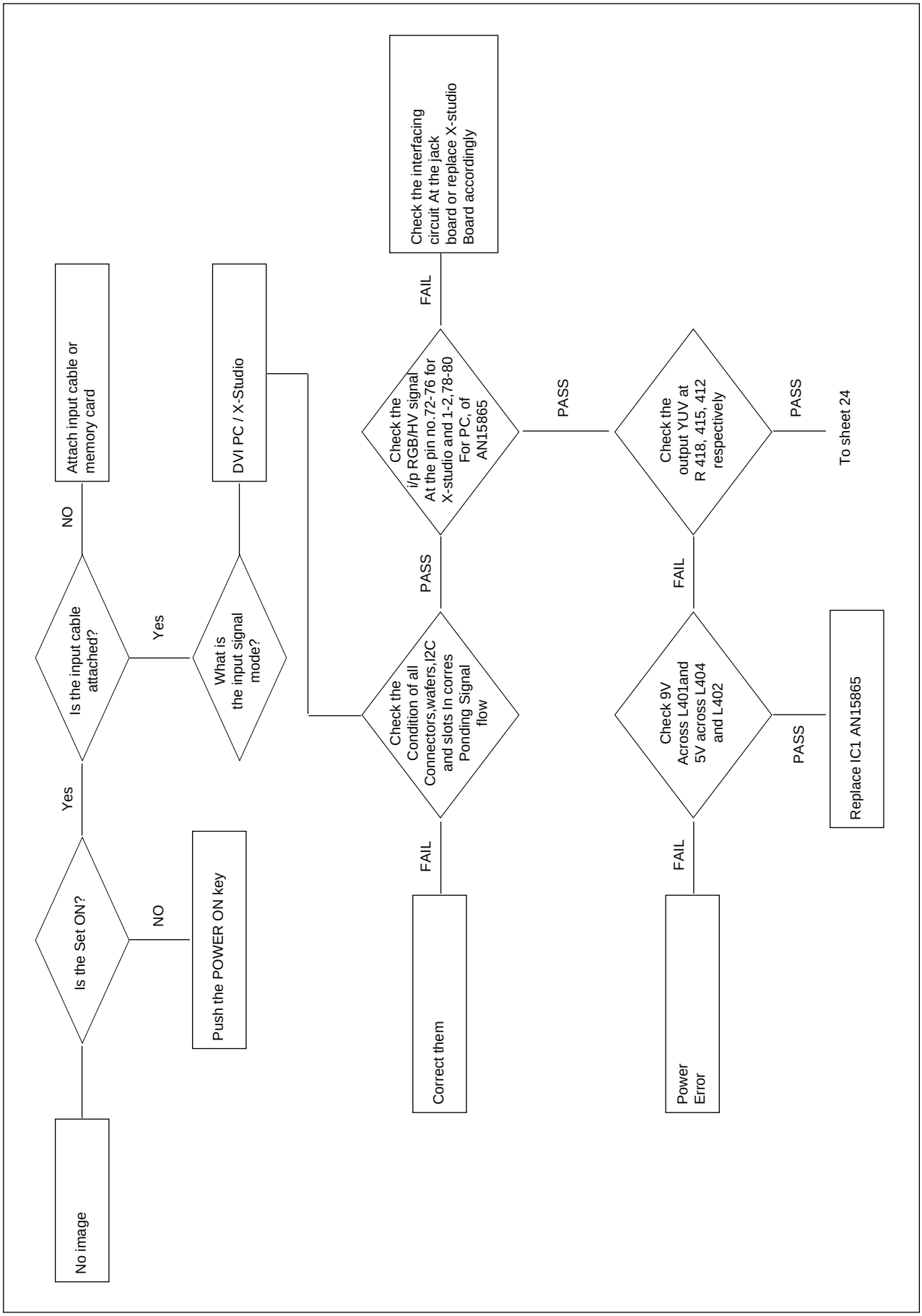


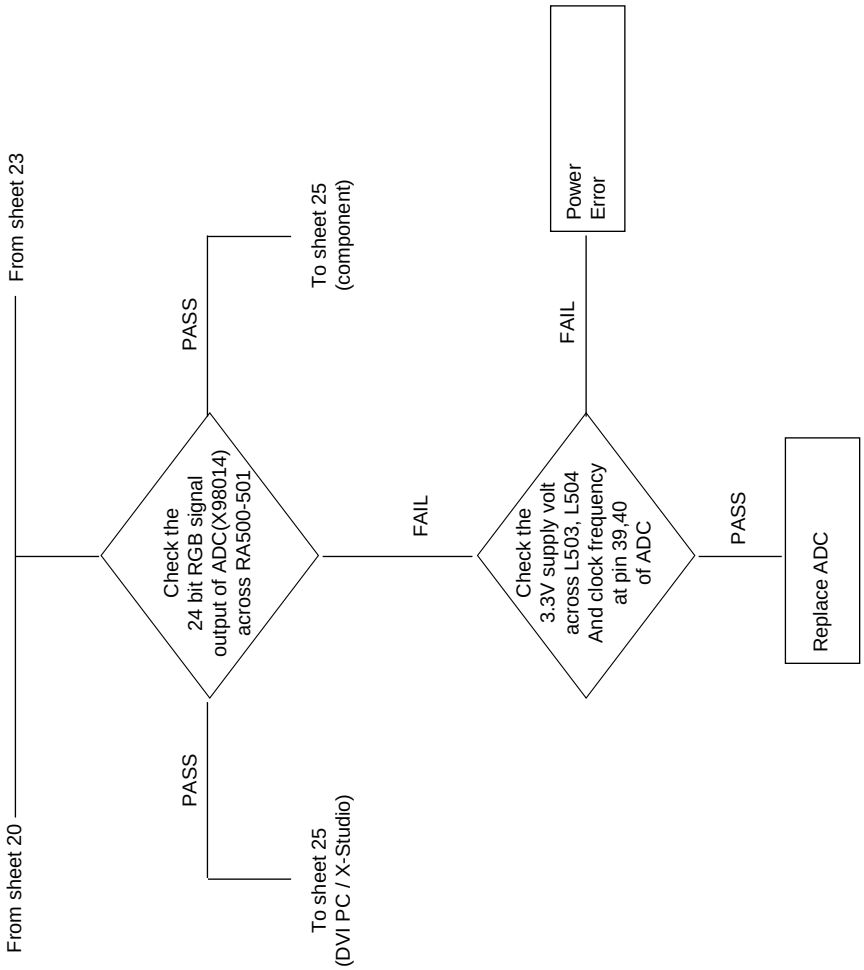
TROUBLESHOOTING(IMAGE)

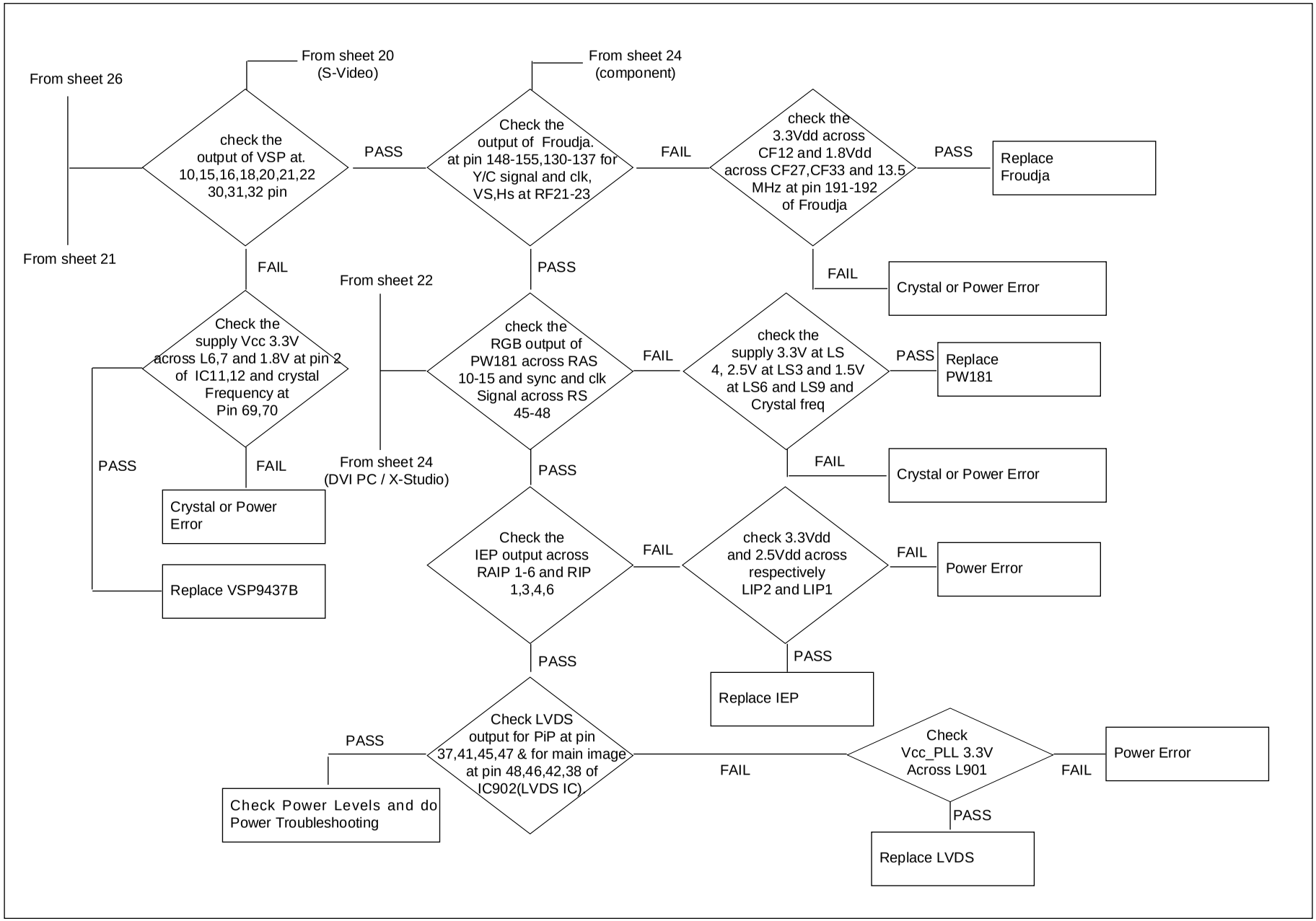


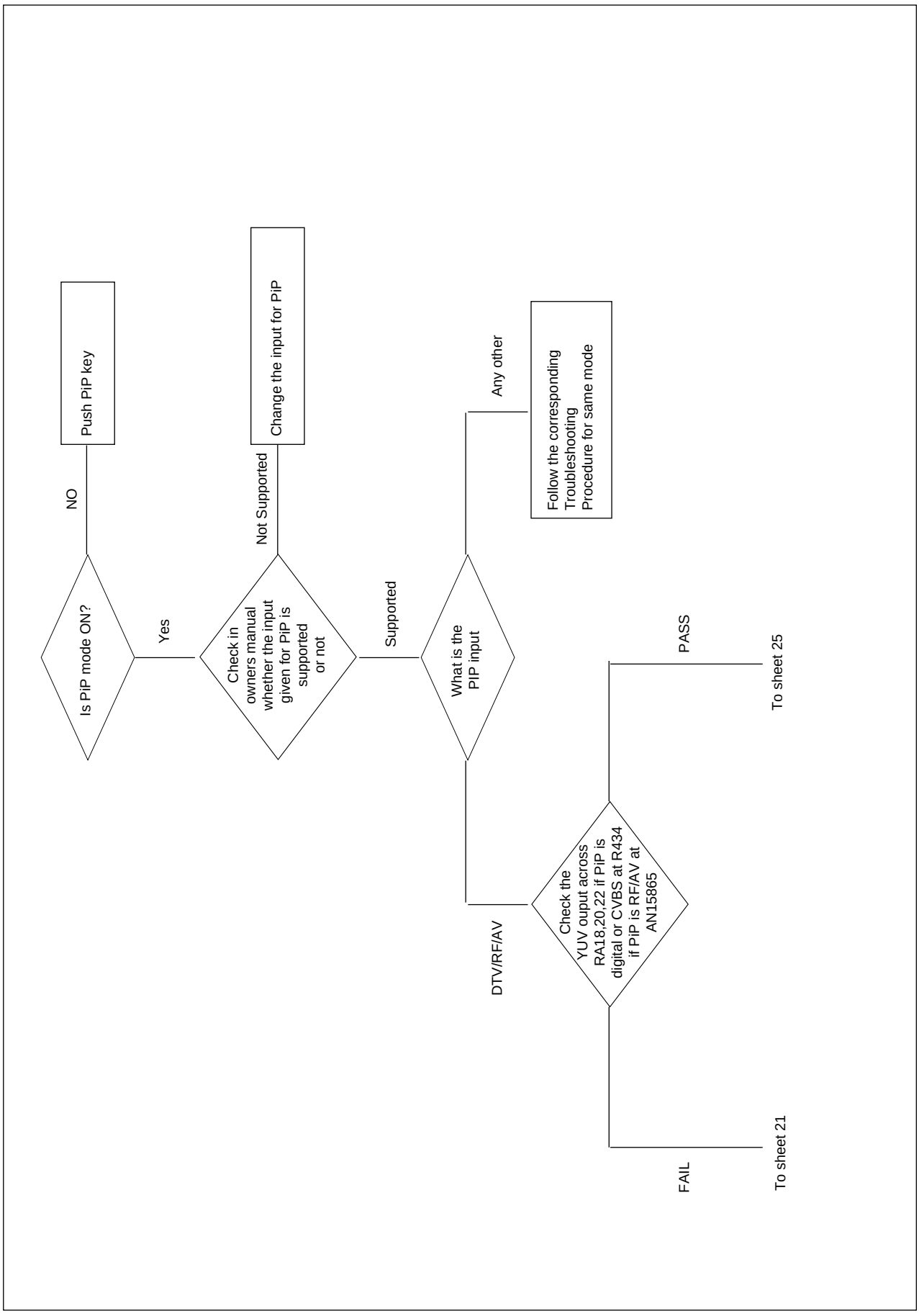

No image
Is the Set ON?
NO
Push the POWER ON key
Yes
What is the input signal mode?
Is the input cable attached?
NO
Attach the input cable(s)
Yes
RF/AV/IDTV input
Check Secondary CVBS at R434 (for PIP)
FAIL
Power Error
Check 9V Across L401and at pin 3 of IC100 5V across L404 , L402
FAIL
PASS
Replace IC1 AN15865
PASS
Check the Condition of all Connectors, wafers, I2C In corresponding Signal flow
FAIL
Correct them
PASS
Check the input video signal at pin 48, 50, 52, 54, 60 of AN15865 For RF, AV1/2/3, IDTV Resp.
FAIL
Check Tuner, SCART1/2 Front AV or Digital board Accordingly w.r.t the Mode.
PASS
From sheet 26
Check 9V Across L401and at pin 3 of IC100 5V across L404,L402
FAIL
Power Error
PASS
Replace IC1 AN15865
Check main CVBS at R303
FAIL
PASS
To sheet 25


No image
Attach the input cable(s)
NO
Is the input cable attached?
Yes
Is theSet ON?
Yes
Push the POWER ON key
Yes
What is the input signal mode?
HDMI / DVI DTV
Check the Condition of all Connectors, wafers, I2C In corresponding Signal flow
FAIL
Correct them
PASS
Check the Corresponding EDID Storage memory (I.e., IC202 for DVI and IC203 for HDMI)
FAIL
Replace IC accordingly
PASS
Check the input TMDS signal at pins 39-52 for DVI and 58-71 for HDMI of IC601 Sil9021
FAIL
Check the interfacing ckt Of corresponding mode On jack board
PASS
Check 24 Bit RGB output Across AR 601-606
PASS
To sheet 25
FAIL
Check 3.3V at L601-605 and 1.8V at pin 2 of IC602
PASS
Replace IC1 AN15865
FAIL
Power Error

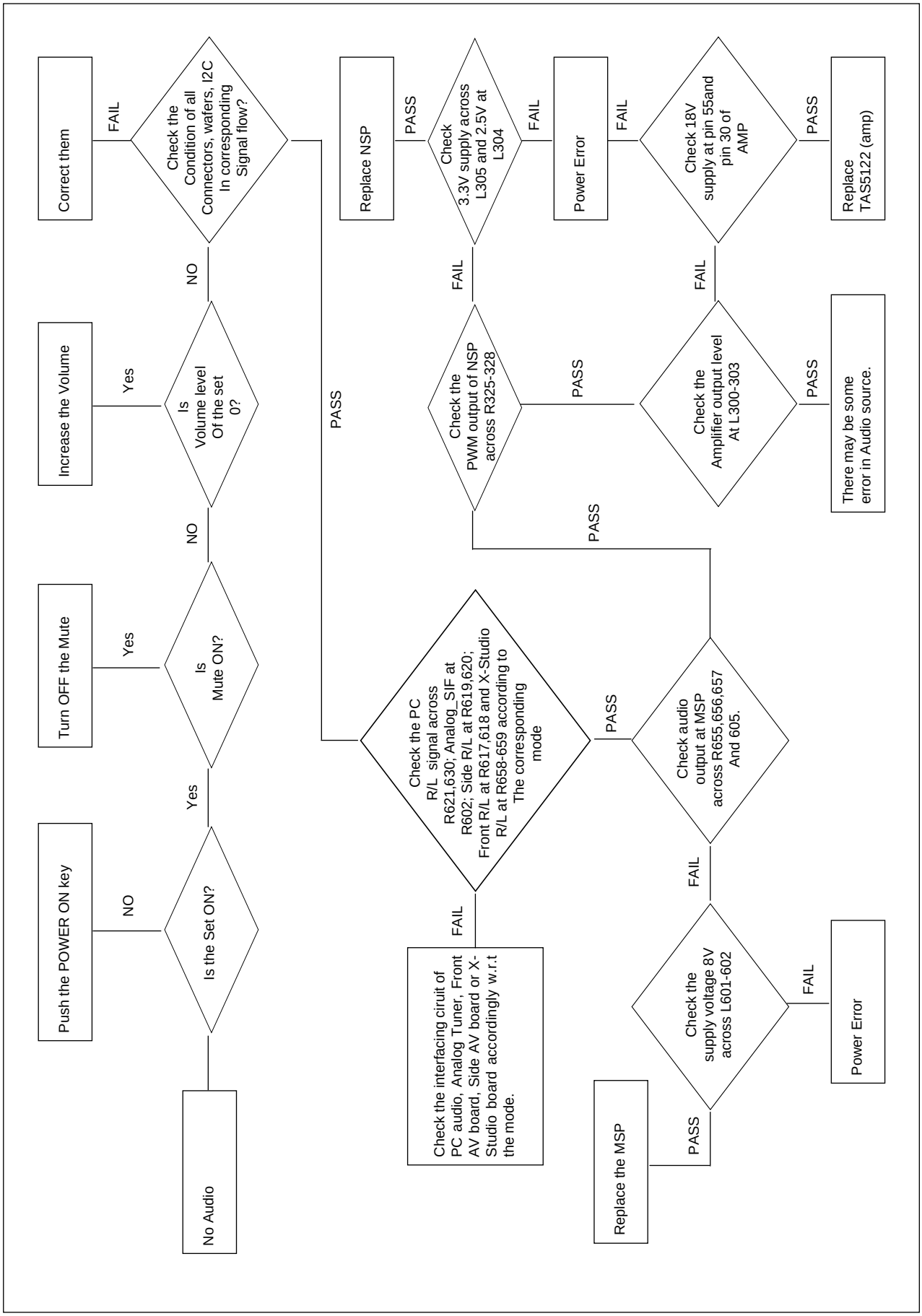

No image
Is the Set ON?
NO
Push the POWER ON key
Yes
Is the input cable attached?
NO
Attach input cable or memory card
Yes
What is the input signal mode?
DVI PC / X-Studio
Check the Condition of all Connectors,wafers,I2C and slots In corres Ponding Signal flow
FAIL
Correct them
PASS
Check the i/p RGB/HV signal At the pin no.72-76 for X-studio and 1-2,78-80 For PC, of AN15865
FAIL
Check the interfacing circuit At the jack board or replace X-studio Board accordingly
PASS
Check the output YUV at R 418, 415, 412 respectively
PASS
To sheet 24
FAIL
Check 9V Across L401and 5V across L404 and L402
FAIL
Power Error
PASS
Replace IC1 AN15865


From sheet 23
From sheet 20
Check the
24 bit RGB signal
output of ADC(X98014)
across RA500-501
PASS
To sheet 25
(component)
PASS
To sheet 25
(DVI PC / X-Studio)
FAIL
Check the
3.3V supply volt
across L503, L504
And clock frequency
at pin 39,40
of ADC
FAIL
Power
Error
PASS
Replace ADC

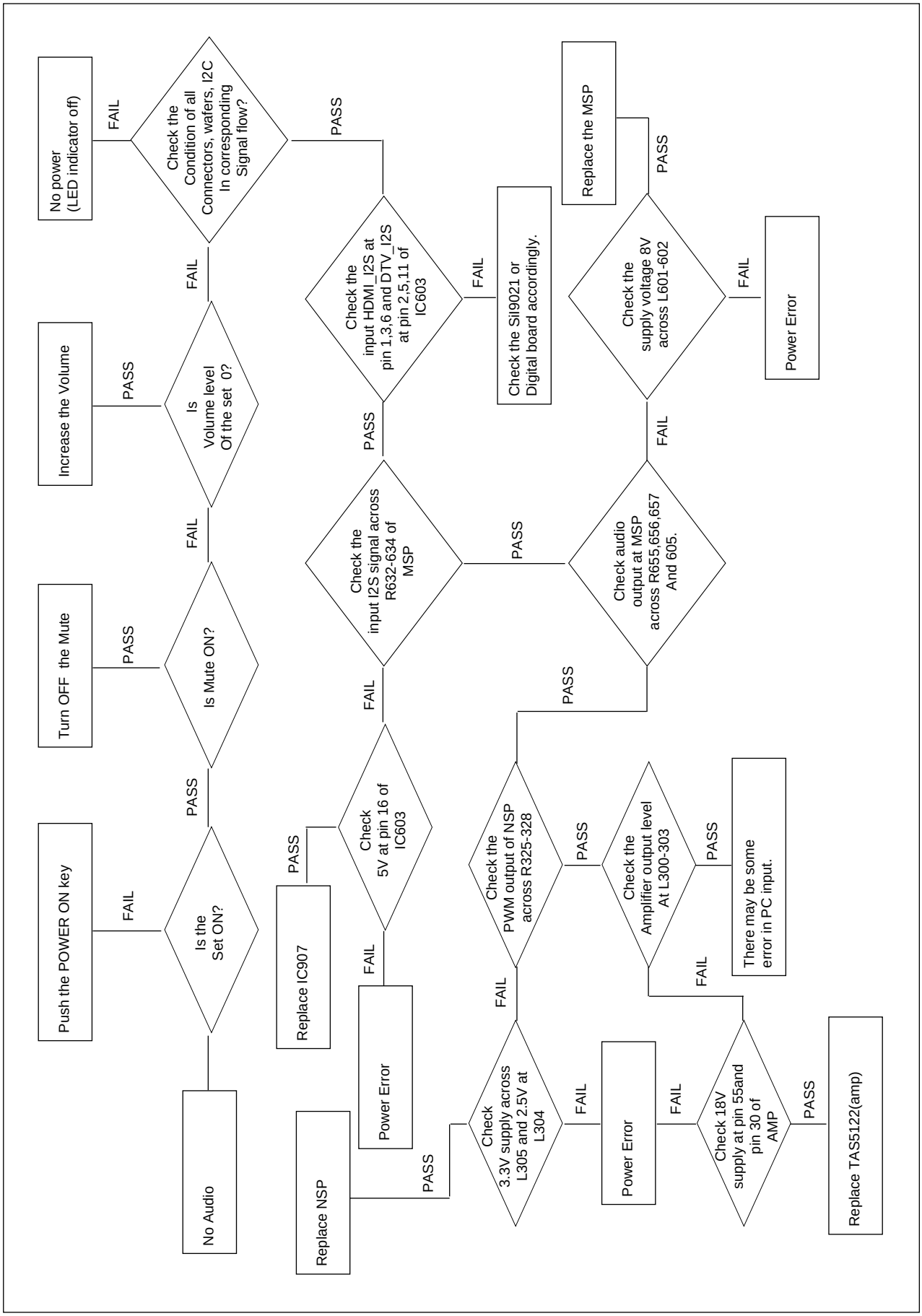

From sheet 26
From sheet 20
(S-Video)
From sheet 24
(component)
check the
output of VSP at.
10,15,16,18,20,21,22
30,31,32 pin
PASS
Check the
output of Froudja.
at pin 148-155,130-137 for
Y/C signal and clk,
VS,Hs at RF21-23
FAIL
check the
3.3Vdd across
CF12 and 1.8Vdd
across CF27,CF33 and 13.5
MHz at pin 191-192
of Froudja
PASS
Replace
Froudja
From sheet 21
FAIL
PASS
FAIL
Crystal or Power Error
From sheet 22
Check the
supply Vcc 3.3V
across L6,7 and 1.8V at pin 2
of IC11,12 and crystal
Frequency at
Pin 69,70
check the
RGB output of
PW181 across RAS
10-15 and sync and clk
Signal across RS
45-48
FAIL
check the
supply 3.3V at LS
4, 2.5V at LS3 and 1.5V
at LS6 and LS9 and
Crystal freq
PASS
Replace
PW181
PASS
FAIL
From sheet 24
(DVI PC / X-Studio)
PASS
FAIL
Crystal or Power Error
Crystal or Power
Error
Check the
IEP output across
RAIP 1-6 and RIP
1,3,4,6
FAIL
check 3.3Vdd
and 2.5Vdd across
respectively
LIP2 and LIP1
FAIL
Power Error
Replace VSP9437B
PASS
PASS
Replace IEP
Check LVDS
output for PiP at pin
37,41,45,47 & for main image
at pin 48,46,42,38 of
IC902(LVDS IC)
PASS
FAIL
Check
Vcc_PLL 3.3V
Across L901
FAIL
Power Error
Check Power Levels and do
Power Troubleshooting
PASS
Replace LVDS


Is PIP mode ON?
NO
Push PiP key
Yes
Check in owners manual whether the input given for PiP is supported or not
Not Supported
Change the input for PiP
Supported
What is the PIP input
Any other
Follow the corresponding Troubleshooting Procedure for same mode
DTV/RF/AV
Check the YUV ouput across RA18,20,22 if PiP is digital or CVBS at R434 if PiP is RF/AV at AN15865
PASS
To sheet 25
FAIL
To sheet 21

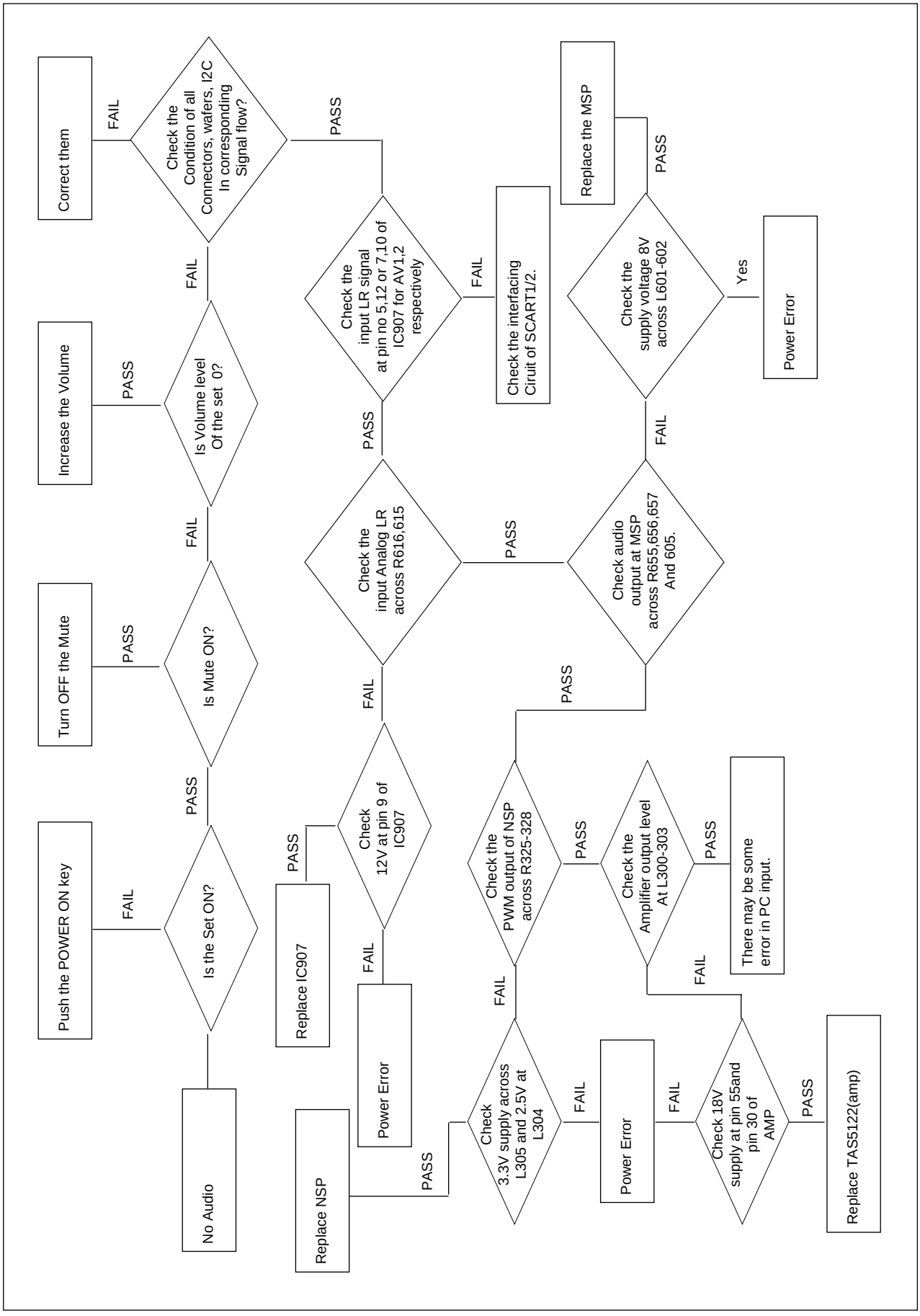
TROUBLESHOOTING(AUDIO)
1. RF/AV3/Component/ X-Studio/PC-Audio



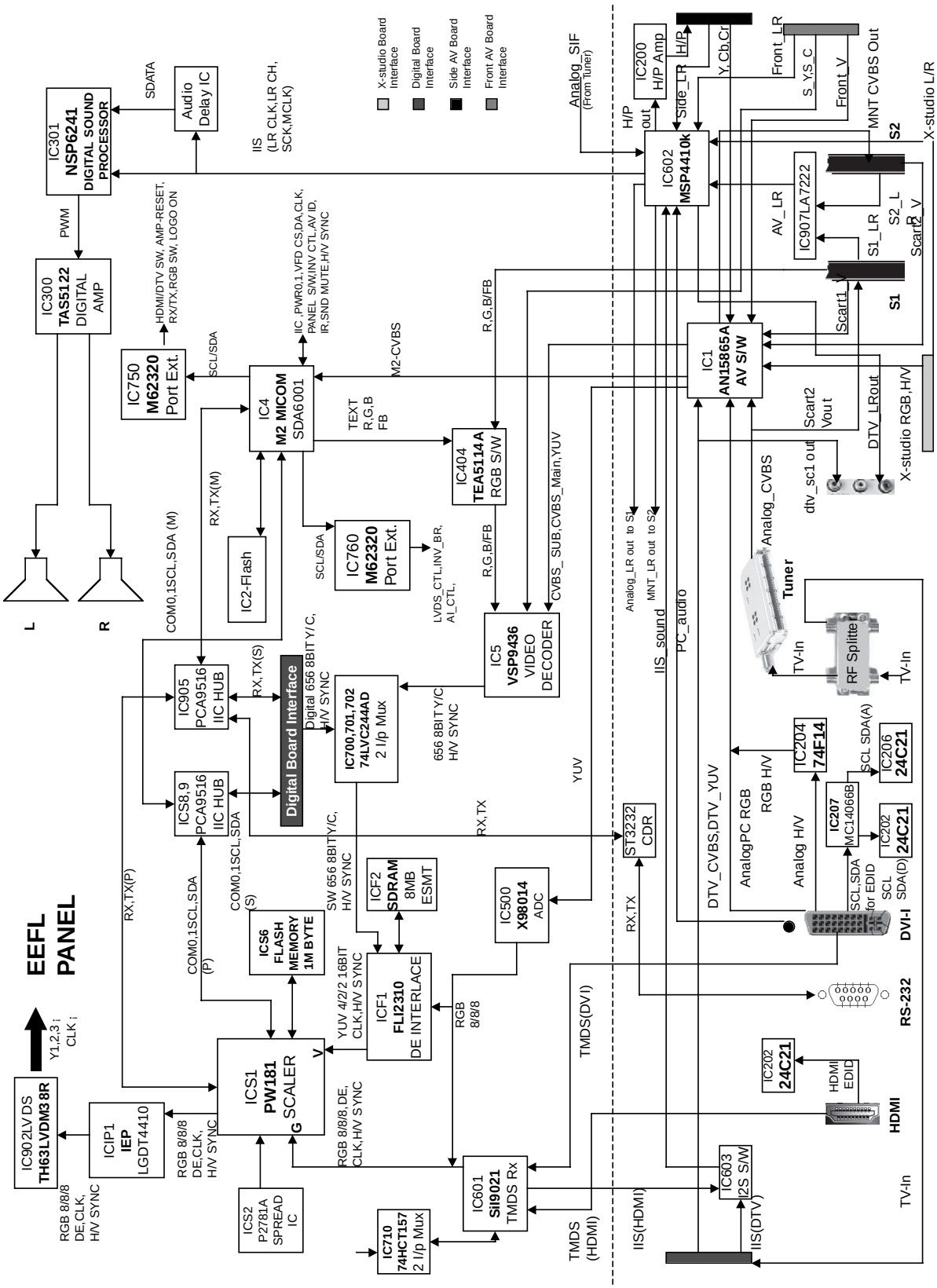
2. IDTV/HDMI-Audio



3. SCART(AV1/2) Audio



BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

1) RF/Analog mode:

- Initially the signal is fed to the Analog Tuner through antenna cable via RF splitter. Now, here the Audio and Video signals are separated and sent accordingly (i.e. audio SIF to MSP4410sound processor and Analog CVBS to AN15865 AV Switch).
- The video signal is then passed to the VSP9437B colour decoder and scan rate converter IC as per the user selection (PiP or Main). VSP9437B chip decodes the video signal and convert it into ITU-R 656 8bit Y/C signal while, The audio signal which was transferred to the MSP chip is processed there and converted into digital audio signal.
- The 656 8bit Y/C signal is now fed to the FLI2310 de-interlacer IC which is used to make the signal progressive and provides 4:2:2 16bit YC output while, The digital audio signal is now transferred to the NSP6241 digital sound processor. It converts the digital audio signal into the PWM signal.
- The 16 bit YUV video is then passed to the PW181 image processor and scalar IC. PW181 supports advanced scaling and video processing techniques such as format conversion and producing high quality video for advanced displays while the audio PWM signal is transferred to the TAS5122 digital amplifier which amplifies the level of audio signal and feed them to the left and right speaker output accordingly.
- The processed 24bit RGB signal from PW181 is passed to LGDP4410 IC. It is an image enhancement chip which is used to improve the picture quality.
- Finally the improved quality 24bit RGB signal is transferred to the LVDS chip which convert it into the low voltage differential signal and interfaces it with the LCD display panel through LVDS cable.

2) IDTV mode:

- Initially the signal is fed to the Digital Tuner through antenna cable via RF splitter. It converts the signal into 8bit digital data (called TS data) and pass it to the CI MAX chip which is the hardware controller and PCMCIA card driver.
- The 8bit output of CI MAX IC is sent to the buffer 74LVC244 which stores the data and check the validity incase of pay channels from the information through PCMCIA card.
- The final data is then passed to the STi5516B IC. It is the MPEG video decoder and audio sub system. It produces the CVBS signal(for main) and YUV(for PiP) and the audio signal clocks and controls which are sent accordingly (i.e. audio I2S to MSP4410 sound processor and DTV_CVBS and YUV to AN15865 AV Switch).
- After these operations the audio and video signals follow the same signal flow and processing as in case of RF/Analog input.

3) AV-1/2/3 mode:

- Initially the signal is fed directly to the AN15865 AV switch through 3 different inputs (I.e. AV-1 from full SCART, AV-2 from half SCART and AV-3 from front A/V).
- The SCART Audio(AV1,AV2) are fed to MSP4410K through the LA7222 switch for selecting appropriate mode while Front LR(AV3) is directly fed to the MSP4410K sound processor IC.
- After these operations the audio and video signals follow the same signal flow and processing as in case of RF/Analog input.

4) Component mode:

- Initially the video signal is fed to the AN15865 switch IC and the audio signal is sent to the MSP4410 sound processor directly from the component input jack. From here the audio processing is same as in case of RF mode.
- The YUV video signal is transferred to the X98014 ADC which converts it into 24bit RGB and passes it to the FLI2310 de-interlacer IC and from there it follows the same signal flow and processing as in case of RF mode.

5) DVI/DTV mode:

- Initially the TMDS signal is fed to the SiI 9021 TMDS receiver chip which uses panel link digital technology to support high resolution digital displays and HDTV.
- The TMDS Rxr IC converts the TMDS ssignal to 24 bit RGB anddirectly transfers it to the PW181 scalar and image processor and it follows the same processing as in case of RF mode.
- The audio signal here is fed to the MSP directly from PC audio input and from here the audio processing is same as in case of RF mode.

6) DVI/PC mode:

- Initially the PC RGB signal is fed to the AN15865 switch from where it is transferred to X98014 ADC
- There it is converted into 24bit RGB signal and is transferred to the PW181 scalar and image processor and it follows the same processing as in case of RF mode.
- The audio signal here is fed to the MSP directly from PC audio input and from here the audio processing is same as in case of RF mode.

7) HDMI mode:

- Initially the HDMI TMDS signal is fed to the SiI 9021 TMDS receiver chip which uses panel link digital technology to support high resolution digital displays and HDTV.
- The TMDS Rxr IC splits the HDMI TMDS signal into 24 bit RGB and I2S audio signal It directly transfers 24bit RGB to the PW181 scalar and image processor and it follows the same processing as in case of RF mode.
- The audio signal is fed to the MSP via I2S switch which switches between HDMI I2S and DTV I2S. After that the audio processing follows the same path as in any other mode.

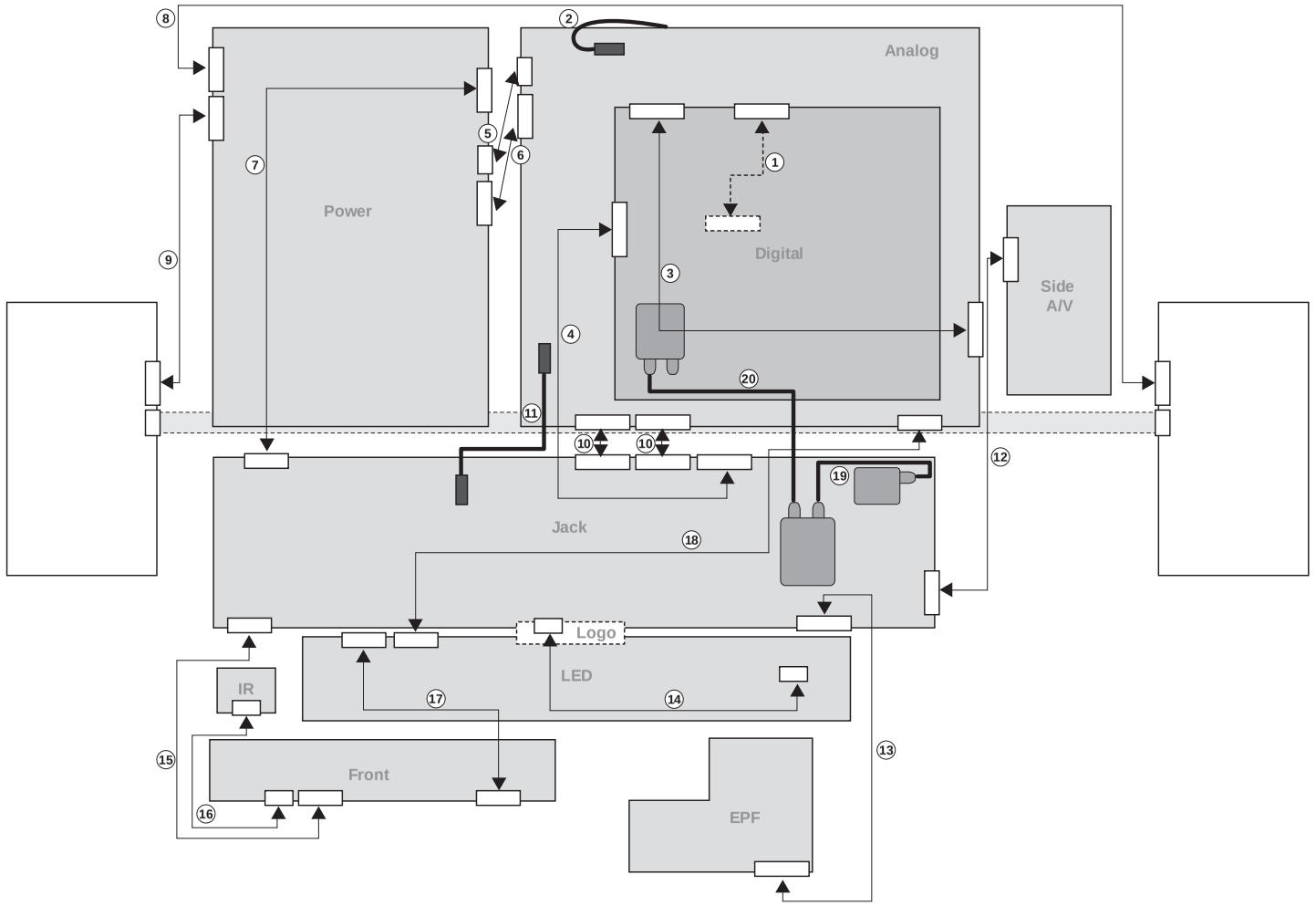
8) X-Studio mode:

- Initially the RGB/HV signal is fed to the AN15865 switching IC and from there it follows the same path as in case of PC RGB signal processing.
- The X-Studio LR signal is directly input to the MSP4410K sound processor thereafter it follows the same processing route as in any other mode audio processing.

9) S-Video mode:

- The S-video YC signal is directly transferred to the VSP9437B video decoder IC from where it follows the same processing path as in case of RF/TV mode.
- S-video doesn't have any separate audio port. It uses AV3 audio for sound output(front LR).

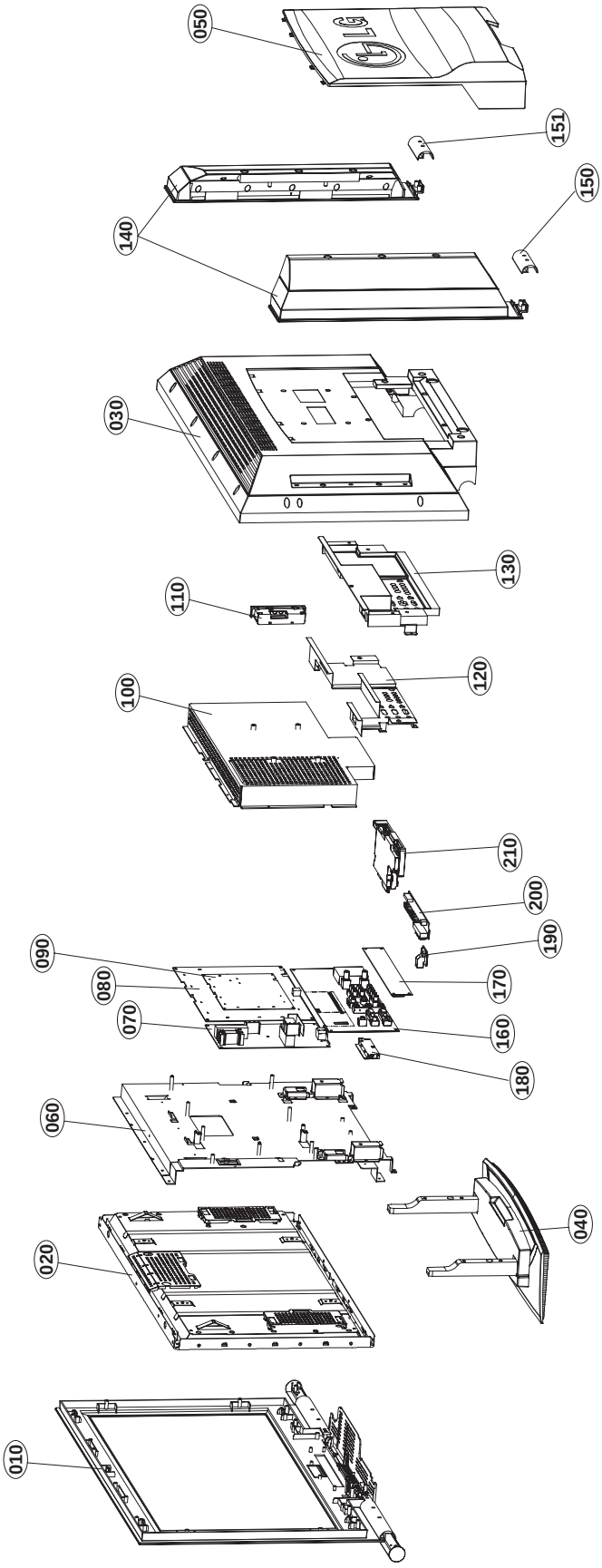
WIRING DIAGRAM



Wiring Part List

NO.	PART NO.
1	6631T11020A
2	6631T11020Z
3	6631T25023N
4	6631T20039C
5	6631T25019N
6	6631T25024Q
7	6631T25023L
8	6631T20037D
9	6631T20032U
10	6631T11022B
11	6631T11023A
12	6631T20034V
13	6631T12007D
14	6631T20028W
15	6631T20034U
16	6631T20033D
17	6631T20028V
18	6631T20028X
21	6852TAZ012J
22	6852TAZ012W

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.		DESCRIPTION
010	⚠	3091TKE028L	Cover Assembly, 37LP1DA-ZA BRAND . CABINET ASSY(C/SKD)
020	⚠	6304FLP291A	LCD,Module-TFT, LC370W01-C6K1 DRIVER 37.0INCH 1366X768 500CD COLOR - - - - LG PHILIPS LCD
		6304FLP360A	LCD,Panel-TFT, LC370WX1-SL11 37INCH 1365X768 500CD COLOR 72% -
030	⚠	3809TKE026C	Cover Assembly, 37LP10 . BACK COVER ASSY, 37LP1D-I(C/SKD)
040	⚠	3043TKK224C	Base Assembly, 37LP1D-I . STAND ASSY(C/SKD)
050		3550TKK768B	Cover, MOLD ABS 37LP10 REAR C/SKD
060		4951TKS213C	Plate Assembly, FRAME, MAIN FRAME ASSY, 37LP1D-I(C/SKD)
070	⚠	6871TPT315A	PCB Assembly,Power, 37-42 DCR POWER TOTAL BRAND KNPOWERTEK
080	⚠	3313TD3061A	Main Total Assembly, 37LP1DA-ZA BRAND ML-03JC
		33139L3016A	Main Total Assembly, 37LP1DA-ZA.SPDELLP BRAND ML-03JC
090		6871TSTB66A	PCB Assembly,Sub, 37LP1DA-ZA SUB TOTAL BRAND DIGITAL BOARD ASSY
100		4951TKK276E	Plate Assembly, SHIELD AV ASSY, 37LP1D-EA(C/SKD)
110		68719ST785A	PCB Assembly,Sub, SUB T.T ML03JB EA/ZA . SIDE TOTAL
120		4951TKK276E	Plate Assembly, SHIELD AV ASSY, 37LP1D-EA(C/SKD)
130		3551TKK586H	Cover Assembly, 37LP1DA-ZA REAR . BRACKET AV ASSY
140		EAB31759206	Speaker,System 3551TKS063F
150		4810TKS009A	Bracket, MOLD ABS 37LP10 SPEAKER DECO RIGHT
151		4810TKS009B	Bracket, MOLD ABS 37LP10 SPEAKER DECO LEFT
160		6871TSTB67A	PCB Assembly,Sub, 37LP1DA-ZA SUB TOTAL BRAND JACK BOARD ASSY
170		6871TSTB70A	PCB Assembly,Sub, 37LP1DA-ZA SUB TOTAL BRAND LED BOARD ASSY
180		6871TSTB72A	PCB Assembly,Sub, 37LP1DA-ZA SUB TOTAL BRAND LOGO BOARD ASSY
190		68719ST786A	PCB Assembly,Sub, SUB T.T ML03JB EA/ZA . IR TOTAL
200		6871TSTB71A	PCB Assembly,Sub, 37LP1DA-ZA SUB TOTAL BRAND FRONT BOARD ASSY
210		6871TSTB68A	PCB Assembly,Sub, 37LP1DA-ZA SUB TOTAL BRAND X-STUDIO BOARD ASSY

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN, CH : Ceramic CQ : Polyestor CE : Electrolytic CF : Fixed Film	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RH : CHIP, Metal Glazed(Chip) RR : Drawing

DATE: 2006. 02. 14.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		C110	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C111	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C113	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C114	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C15	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C17	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C18	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C19	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C22	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C23	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C25	0CE106SH6DC	VMV106M025S0ANB010 10uF 20%
		C26	0CE106SH6DC	VMV106M025S0ANB010 10uF 20%
		C29	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C32	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C330	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25
		C331	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25
		C333	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25
		C34	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C342	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C346	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C352	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C353	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C36	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C4	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C40	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C41	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C44	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C46	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C48	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C49	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C50	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C53	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C531	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C532	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C533	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C54	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C55	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C601	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C625	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C626	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C627	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C630	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C637	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C654	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C668	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C670	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C700	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C801	0CE107WK6DC	MVK10TP50VC100M 100uF 20% 5
		C802	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20%
		C803	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C804	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C805	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20%
		C807	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C808	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20%
		C809	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20%
		C85	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C88	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%

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		C9	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C905	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20%
		C908	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C923	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C925	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C927	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C930	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C97	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		C99	0CE106SH6DC	VMV106M025S0ANB010 10uF 20%
		CF1	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CF14	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CF16	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CF28	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CF34	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CIP17	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CIP38	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CS1	0CZZTAT002F	2R5SVP220M 220uF 20% 2.5V 2
		CS112	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		CS47	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CS48	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CS76	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		CS77	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		CS78	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		CS81	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		CS83	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		CS84	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		CS9	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C324	0CE108CJ618	SHL5.0TP35VB1000M 1000uF 20
		C327	0CE108CJ618	SHL5.0TP35VB1000M 1000uF 20
		C1	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C10	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C11	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C12	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C120	0CH3104K566	0805B104K500CT 100nF 10% 50
		C121	0CH3104K566	0805B104K500CT 100nF 10% 50
		C122	0CH3104K566	0805B104K500CT 100nF 10% 50
		C126	0CH3104K566	0805B104K500CT 100nF 10% 50
		C127	0CH3104K566	0805B104K500CT 100nF 10% 50
		C128	0CH3104K566	0805B104K500CT 100nF 10% 50
		C13	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C14	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C16	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C20	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C201	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C21	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C222	0CH3104K566	0805B104K500CT 100nF 10% 50
		C24	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C28	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C3	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C31	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C314	0CH3104K566	0805B104K500CT 100nF 10% 50
		C315	0CH3104K566	0805B104K500CT 100nF 10% 50
		C316	0CH3104K566	0805B104K500CT 100nF 10% 50
		C317	0CH3104K566	0805B104K500CT 100nF 10% 50

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		C318	0CH3104K566	0805B104K500CT 100nF 10% 50
		C325	0CH3104K566	0805B104K500CT 100nF 10% 50
		C326	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C328	0CH3104K566	0805B104K500CT 100nF 10% 50
		C329	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C33	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C332	0CH3104K566	0805B104K500CT 100nF 10% 50
		C334	0CH3104K566	0805B104K500CT 100nF 10% 50
		C335	0CH3104K566	0805B104K500CT 100nF 10% 50
		C336	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C337	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C338	0CH3104K566	0805B104K500CT 100nF 10% 50
		C339	0CH3104K566	0805B104K500CT 100nF 10% 50
		C340	0CH3104K566	0805B104K500CT 100nF 10% 50
		C341	0CH3104K566	0805B104K500CT 100nF 10% 50
		C345	0CH3104K566	0805B104K500CT 100nF 10% 50
		C347	0CH3104K566	0805B104K500CT 100nF 10% 50
		C348	0CH3104K566	0805B104K500CT 100nF 10% 50
		C349	0CH3104K566	0805B104K500CT 100nF 10% 50
		C35	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C350	0CH3104K566	0805B104K500CT 100nF 10% 50
		C351	0CH3104K566	0805B104K500CT 100nF 10% 50
		C39	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C42	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C45	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C47	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C500	0CH3104K566	0805B104K500CT 100nF 10% 50
		C501	0CH3104K566	0805B104K500CT 100nF 10% 50
		C503	0CH3104K566	0805B104K500CT 100nF 10% 50
		C504	0CH3104K566	0805B104K500CT 100nF 10% 50
		C506	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C507	0CH3104K566	0805B104K500CT 100nF 10% 50
		C508	0CH3104K566	0805B104K500CT 100nF 10% 50
		C51	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C510	0CH3104K566	0805B104K500CT 100nF 10% 50
		C511	0CH3104K566	0805B104K500CT 100nF 10% 50
		C512	0CH3104K566	0805B104K500CT 100nF 10% 50
		C513	0CH3104K566	0805B104K500CT 100nF 10% 50
		C514	0CH3104K566	0805B104K500CT 100nF 10% 50
		C515	0CH3104K566	0805B104K500CT 100nF 10% 50
		C516	0CH3104K566	0805B104K500CT 100nF 10% 50
		C517	0CH3104K566	0805B104K500CT 100nF 10% 50
		C52	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C520	0CH3104K566	0805B104K500CT 100nF 10% 50
		C521	0CH3104K566	0805B104K500CT 100nF 10% 50
		C522	0CH3104K566	0805B104K500CT 100nF 10% 50
		C523	0CH3104K566	0805B104K500CT 100nF 10% 50
		C524	0CH3104K566	0805B104K500CT 100nF 10% 50
		C525	0CH3104K566	0805B104K500CT 100nF 10% 50
		C526	0CH3104K566	0805B104K500CT 100nF 10% 50
		C527	0CH3104K566	0805B104K500CT 100nF 10% 50
		C528	0CH3104K566	0805B104K500CT 100nF 10% 50
		C529	0CH3104K566	0805B104K500CT 100nF 10% 50
		C530	0CH3104K566	0805B104K500CT 100nF 10% 50
		C534	0CH3104K566	0805B104K500CT 100nF 10% 50
		C536	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C537	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C538	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C6	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C602	0CH3104K566	0805B104K500CT 100nF 10% 50
		C603	0CH3104K566	0805B104K500CT 100nF 10% 50
		C605	0CH3104K566	0805B104K500CT 100nF 10% 50

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		C606	0CH3104K566	0805B104K500CT 100nF 10% 50
		C61	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C611	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C612	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C613	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C614	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C615	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C616	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C62	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C620	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C621	0CH3104K566	0805B104K500CT 100nF 10% 50
		C623	0CH3104K566	0805B104K500CT 100nF 10% 50
		C624	0CH3104K566	0805B104K500CT 100nF 10% 50
		C628	0CH3104K566	0805B104K500CT 100nF 10% 50
		C629	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C631	0CH3104K566	0805B104K500CT 100nF 10% 50
		C632	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C633	0CH3104K566	0805B104K500CT 100nF 10% 50
		C634	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C635	0CH6180K416	C2012C0G1H180JT 18pF 5% 50V
		C636	0CH6180K416	C2012C0G1H180JT 18pF 5% 50V
		C638	0CH3104K566	0805B104K500CT 100nF 10% 50
		C639	0CH3104K566	0805B104K500CT 100nF 10% 50
		C641	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C642	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C643	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C644	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C649	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C651	0CH3104K566	0805B104K500CT 100nF 10% 50
		C652	0CH3104K566	0805B104K500CT 100nF 10% 50
		C653	0CH3104K566	0805B104K500CT 100nF 10% 50
		C655	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C656	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C657	0CH3104K566	0805B104K500CT 100nF 10% 50
		C658	0CH3104K566	0805B104K500CT 100nF 10% 50
		C659	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C66	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C660	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C661	0CH3104K566	0805B104K500CT 100nF 10% 50
		C662	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C663	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C665	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		C667	0CH3104K566	0805B104K500CT 100nF 10% 50
		C669	0CH3104K566	0805B104K500CT 100nF 10% 50
		C67	0CH3104K566	0805B104K500CT 100nF 10% 50
		C671	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C68	0CH3104K566	0805B104K500CT 100nF 10% 50
		C70	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C701	0CH3104K566	0805B104K500CT 100nF 10% 50
		C71	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C710	0CH3104K566	0805B104K500CT 100nF 10% 50
		C72	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C73	0CH3104K566	0805B104K500CT 100nF 10% 50
		C76	0CH3104K566	0805B104K500CT 100nF 10% 50
		C77	0CH3104K566	0805B104K500CT 100nF 10% 50
		C78	0CH3104K566	0805B104K500CT 100nF 10% 50
		C79	0CH3104K566	0805B104K500CT 100nF 10% 50
		C8	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C80	0CH3104K566	0805B104K500CT 100nF 10% 50
		C84	0CH3104K566	0805B104K500CT 100nF 10% 50
		C86	0CH3104K566	0805B104K500CT 100nF 10% 50
		C87	0CH3104K566	0805B104K500CT 100nF 10% 50

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		C89	0CH3104K566	0805B104K500CT 100nF 10% 50
		C90	0CH3104K566	0805B104K500CT 100nF 10% 50
		C900	0CH3104K566	0805B104K500CT 100nF 10% 50
		C903	0CH3104K566	0805B104K500CT 100nF 10% 50
		C904	0CH3104K566	0805B104K500CT 100nF 10% 50
		C909	0CH3104K566	0805B104K500CT 100nF 10% 50
		C91	0CH3104K566	0805B104K500CT 100nF 10% 50
		C921	0CH3104K566	0805B104K500CT 100nF 10% 50
		C922	0CH3104K566	0805B104K500CT 100nF 10% 50
		C924	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C928	0CH3104K566	0805B104K500CT 100nF 10% 50
		C933	0CH3104K566	0805B104K500CT 100nF 10% 50
		C934	0CH3104K566	0805B104K500CT 100nF 10% 50
		C94	0CH3104K566	0805B104K500CT 100nF 10% 50
		C947	0CH3104K566	0805B104K500CT 100nF 10% 50
		C95	0CH3104K566	0805B104K500CT 100nF 10% 50
		C96	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF10	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF11	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF12	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF13	0CH6330K416	C2012C0G1H330JT 33p 5% 50V
		CF15	0CH6330K416	C2012C0G1H330JT 33p 5% 50V
		CF17	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF18	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF2	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF20	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF21	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF22	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF23	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF24	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF25	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF26	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF27	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF29	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF3	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF30	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF31	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF32	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF33	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF35	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF36	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF37	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF38	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF39	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF4	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF40	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF41	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF42	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF43	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF44	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF45	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF46	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF47	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF5	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF6	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF7	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF8	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF9	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP1	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP10	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP11	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP12	0CH3104K566	0805B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		CIP13	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP14	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP15	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP16	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP2	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP3	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP4	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP5	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP6	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP7	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP8	0CH3104K566	0805B104K500CT 100nF 10% 50
		CIP9	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS10	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS12	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS13	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS14	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS15	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS16	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS17	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS18	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS19	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS2	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS20	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS21	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS22	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS23	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS24	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS25	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS26	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS27	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS28	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS29	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS3	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS30	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS31	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS32	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS33	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS34	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS35	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS36	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS37	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS38	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS39	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS4	0CH6180K416	C2012C0G1H180JT 18pF 5% 50V
		CS40	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS41	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS42	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS43	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS44	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS45	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS46	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS49	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS5	0CH6180K416	C2012C0G1H180JT 18pF 5% 50V
		CS50	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS51	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS52	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS53	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS54	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS55	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS56	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS57	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS58	0CH3104K566	0805B104K500CT 100nF 10% 50

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		CS59	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS6	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS60	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS61	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS62	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS63	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS64	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS65	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS66	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS67	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS68	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS69	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS7	0CH6271K416	C2012C0G1H271JT 270pF 5% 50
		CS70	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS71	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS72	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS73	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS74	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS75	0CH3104K566	0805B104K500CT 100nF 10% 50
		CS79	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		CS82	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		CS85	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		CS86	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C100	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C101	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C102	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C103	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C104	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C105	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C112	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C115	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C27	0CH6151K416	C2012C0G1H151JT 150pF 5% 50
		C30	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C300	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C301	0CH3104K566	0805B104K500CT 100nF 10% 50
		C302	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C303	0CH3104K566	0805B104K500CT 100nF 10% 50
		C305	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C306	0CH3104K566	0805B104K500CT 100nF 10% 50
		C307	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C308	0CH3104K566	0805B104K500CT 100nF 10% 50
		C310	0CH2333K516	0805B333K500CT 33nF 10% 50V
		C311	0CH2333K516	0805B333K500CT 33nF 10% 50V
		C312	0CH2333K516	0805B333K500CT 33nF 10% 50V
		C313	0CH2333K516	0805B333K500CT 33nF 10% 50V
		C319	0CH3104K566	0805B104K500CT 100nF 10% 50
		C320	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C322	0CH3104K566	0805B104K500CT 100nF 10% 50
		C323	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C37	0CH6330K416	C2012C0G1H330JT 33p 5% 50V
		C38	0CH6330K416	C2012C0G1H330JT 33p 5% 50V
		C426	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C5	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C518	0CH6220K416	C2012C0G1H220JT 22pF 5% 50V
		C519	0CH6220K416	C2012C0G1H220JT 22pF 5% 50V
		C57	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C58	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C59	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C63	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C64	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C65	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C69	0CH2473K516	0805B473K500CT 47nF 10% 50V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C702	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C74	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C75	0CH2473K516	0805B473K500CT 47nF 10% 50V
		C81	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C92	0CH6220K416	C2012C0G1H220JT 22pF 5% 50V
		C926	0CH3104K566	0805B104K500CT 100nF 10% 50
		C93	0CH6220K416	C2012C0G1H220JT 22pF 5% 50V
		C931	0CH3104K566	0805B104K500CT 100nF 10% 50
		C935	0CH3104K566	0805B104K500CT 100nF 10% 50
		C941	0CH3104K566	0805B104K500CT 100nF 10% 50
		C98	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF19	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		CS111	0CH6120K416	C2012C0G1H120JT 12pF 5% 50V
		C304	0CF4741L438	PCMT 365 76474 470nF 5% 63V
		C309	0CF4741L438	PCMT 365 76474 470nF 5% 63V
		DIODEs		
		D1	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		IC		
		IC2	0IZZTSA113A	MACRONIX 48P 37LP1DA-ZA M2
		IC2	0IZZ9H0110A	0IMMRMR027D MACRONIX TSOP 4
		ICS6	0IZZTSA114A	INTEL 48P 37LP1DA-ZA PW FLA
		IC500	0IPRPXI003A	X98014L128-3.3Z 3TO3.6V - 8
		IC6	0IPRPSG032B	TEA5114A 9TO13.2V - - - DIP
		ICIP1	0ICTMLG018A	LGDP4410 3TO3.6V_2.3TO2.7V
		IC300	0IMCRTI028C	"TAS5122DCARG4,LF 3TO3.6V_16"
		IC301	0IMCRNL001C	NSP-6241B - - 0.03% - - - 6
		IC905	0IMCRPH026B	PA9516APW 0.5TO7.0 - - 0W 3
		ICS8	0IMCRPH026B	PA9516APW 0.5TO7.0 - - 0W 3
		ICS9	0IMCRPH026B	PA9516APW 0.5TO7.0 - - 0W 3
		IC700	0IPH742440F	74LVC244AD 1.2TO3.6V 0.01mA
		IC701	0IPH742440F	74LVC244AD 1.2TO3.6V 0.01mA
		IC702	0IPH742440F	74LVC244AD 1.2TO3.6V 0.01mA
		IC710	0IMCRTI001A	SN74HCT157DR 4.5TO5.5V 0.00
		ICS10	0IPH743200A	74HC32D 2TO6V 0.002mA OR GA
		IC304	0IPRPJR017A	NJU26901E2 2.25TO2.75V 1mA
		IC9	0IMCRAL006A	AT24C16AN-10SU-2.7 16KBIT 2
		ICS4	0IMCRAL006A	AT24C16AN-10SU-2.7 16KBIT 2
		ICS1	0IMCRPW001E	"PW181A-10VL,LF 3TO3.6V_2.3T"
		IC750	0IMI623200B	M62320FP 4.5TO5.5V 0.05mA 4
		IC760	0IMI623200B	M62320FP 4.5TO5.5V 0.05mA 4
		IC11	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		IC12	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		IC19	0ISJ111733A	EZ1117CST-3.3 2.65TO7V 3V -
		IC303	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		IC501	0IMCRNS007E	LMS1587CS-3.3 4.75TO7V 3.3V
		IC602	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		IC7	0ISJ111733A	EZ1117CST-3.3 2.65TO7V 3V -
		IC8	0IPRPML001C	"MIC39100-2.5WS,LF 2.3TO26V"
		ICF3	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		ICS11	0IMCRNS007E	LMS1587CS-3.3 4.75TO7V 3.3V
		ICS5	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		ICS7	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		IC2	0IMMRMR027D	MX29LV320ATTC-70G 32MBIT 4M
		ICS6	0IMMRMR010F	MX29LV160CTTC-70G 16MBIT 2M
		IC3	0IMMR00133A	S29JL032H70TFI310 32MBIT 4M
		IC102	0IMMRAL043C	AT49BV162A-70TU 32MBIT 2MX8
		IC601	0IPRPS5006A	"SIL9021CTU 3.0VTO3.6V,1.62V"
		ICS3	0IMCRTI020A	"TLC7733IDR,LF 2TO6V - 725MW"
		IC3	0IMMRHY001L	HY57V641620ETP-H 64MBIT 1MX

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ICF2	0IMMRSS037F	K4S643232H-UC60 64MBIT 512K
		IC4	0IMCRMN023A	SDA6001 2.5VTO3.3V - - - MQ
		IC902	0ITH638300C	THC63LVDM83R 3.0TO3.6 500MW
		ICS2	0IMCRPU001A	P2781A PULSE CORE SO 8 PIN
		IC5	0IMCRMN020B	VSP9437B-XZ-C3 3.14VTO3.47V
		ICF1	0IMCRGN001D	"FLI2310-LF-BD 1.8VTO3.3V,0."
		IC10	0IFA752700A	KA75270Z 2.55TO2.85V - 200M
		IC302	0IKE704200J	KIA7042AF -0.3TO15V 4.2V 50
		IC18	0ISS780800J	KA78M08RTM 10.5TO23V 8V - D
		IC907	0IMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK
COIL & CORE & INDUCTOR				
		L300	6140VB0022A	DN-42LZ30 22.8uH - - 18X20M
		L301	6140VB0022A	DN-42LZ30 22.8uH - - 18X20M
		L302	6140VB0022A	DN-42LZ30 22.8uH - - 18X20M
		L303	6140VB0022A	DN-42LZ30 22.8uH - - 18X20M
		L21	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L304	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L305	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L306	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L307	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L501	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L502	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L503	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L6	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L601	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L602	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L603	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L604	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L605	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L606	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L607	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L7	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L751	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L810	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L811	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L814	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L900	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L901	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L902	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L904	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L906	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L907	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L908	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L909	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L910	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		LF1	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LF2	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LF3	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LF4	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LF5	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LIP1	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LS1	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LS3	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LS4	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LS5	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LS6	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LS9	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		AR601	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR602	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR603	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		AR604	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR605	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR606	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR607	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR608	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		L13	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L14	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L30	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L308	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L309	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L310	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L311	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L504	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L700	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L762	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L8	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L801	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L802	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L803	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L804	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L805	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L806	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L807	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L808	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L812	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L903	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L905	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L911	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		L929	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		LIP2	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		R953	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		RAIP1	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAIP2	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAIP3	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAIP4	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAIP5	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAIP6	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAS10	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAS11	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAS12	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAS13	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAS14	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		RAS15	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		L1	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L10	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L11	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L12	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L22	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L23	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L24	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L25	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L26	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L27	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L28	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L3	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L4	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L9	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L5	0LA0821K119	LAL02TB8R2K 8.2UH 10% - 165
FET & TRANSISTOR				
		IC13	0IFA270000A	2N7000TA N-CHANNEL MOSFET 6

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		IC14	0IFA270000A	2N7000TA N-CHANNEL MOSFET 6
		IC15	0IFA270000A	2N7000TA N-CHANNEL MOSFET 6
		IC16	0IFA270000A	2N7000TA N-CHANNEL MOSFET 6
		IC17	0IFA270000A	2N7000TA N-CHANNEL MOSFET 6
		Q601	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q602	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		IC903	0TF492509AA	SI4925DY P-CHANNEL -30V +-2
		Q201	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q202	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q3	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q4	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		QS2	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		QS3	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		QS5	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q2	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q6	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q7	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q700	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q701	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q702	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q901	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q902	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		RESISTORs		
		RA1	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA2	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA3	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA4	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA500	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA501	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA502	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA503	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA504	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA505	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAF1	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		RAF2	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		RAS1	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS16	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS2	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS3	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS4	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS5	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS6	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS7	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS8	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RAS9	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		R1	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R10	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R107	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R108	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R109	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R11	0RH5101D622	MCR10EZHJ512 5.1KOHM 5% 1/8
		R110	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R115	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R121	0RH8201D622	MCR10EZHJ822 8.2KOHM 5% 1/8
		R125	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R126	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R127	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R128	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8

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		R129	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R137	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R138	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R139	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R140	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R164	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R165	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R166	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R167	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R172	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R174	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R176	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R179	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W
		R198	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R199	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R200	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R201	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R205	0RH3901D622	MCR10EZHJ392 3.9KOHM 5% 1/8
		R210	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R211	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R212	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R214	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R215	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R216	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R217	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R218	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R219	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R220	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R221	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R222	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R223	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R224	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R23	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R25	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R251	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R263	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R299	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R300	0RH0101D622	MCR10EZHJ1R0 1OHM 5% 1/8W 2
		R302	0RH0101D622	MCR10EZHJ1R0 1OHM 5% 1/8W 2
		R304	0RH0101D622	MCR10EZHJ1R0 1OHM 5% 1/8W 2
		R306	0RH0101D622	MCR10EZHJ1R0 1OHM 5% 1/8W 2
		R31	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R312	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R313	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R314	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R315	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R316	0RH0331D622	MCR10EZHJ3R3 3.3OHM 5% 1/8W
		R317	0RH0331D622	MCR10EZHJ3R3 3.3OHM 5% 1/8W
		R318	0RH0471D622	MCR10EZHJ4R7 4.7OHM 5% 1/8W
		R32	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R331	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R332	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R342	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R347	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R348	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R349	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R350	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R351	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R36	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R37	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R38	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W

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		R39	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R41	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R47	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R49	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R50	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R500	0RH5100D622	MCR10EZHJ511 510OHM 5% 1/8W
		R502	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R503	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R505	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R52	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R53	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R604	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R623	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R624	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R625	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R627	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R633	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R7	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R710	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R73	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R74	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R75	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R754	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R765	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R766	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R767	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R77	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R778	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R779	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R78	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R784	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R80	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R800	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R803	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R807	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R808	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R809	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R81	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R813	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R815	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R819	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R82	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R820	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R821	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R822	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R824	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R83	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R84	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R85	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R86	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R87	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R88	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R89	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R90	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R900	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R904	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R91	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R92	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R93	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R94	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R941	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R942	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8

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		R943	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R944	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R945	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R946	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R95	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R952	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R96	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R97	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R98	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R983	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R984	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R985	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R986	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF1	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF13	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RF14	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RF16	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RF18	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		RF19	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		RF20	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RF24	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF26	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RIP1	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RIP13	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RIP3	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RIP4	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RIP5	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RIP6	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RIP7	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RIP8	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RIP9	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RS102	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS103	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS107	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS110	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		RS111	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		RS113	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		RS114	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS12	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS13	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS14	0RH6200D622	MCR10EZHJ621 620OHM 5% 1/8W
		RS16	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RS18	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RS21	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS23	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS29	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RS30	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS31	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS32	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS34	0RH2401D622	MCR10EZHJ242 2.4KOHM 5% 1/8
		RS35	0RH2401D622	MCR10EZHJ242 2.4KOHM 5% 1/8
		RS36	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RS37	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RS38	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS39	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS40	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS41	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS43	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS44	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS49	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS50	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS59	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		RS6	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS61	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS62	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS64	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS65	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS66	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS67	0RH1003D622	MCR10EZHJ104 100KOHM 5% 1/8
		RS68	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS69	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS70	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS71	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS82	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS83	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		RS92	0RH1003D622	MCR10EZHJ104 100KOHM 5% 1/8
		RS93	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS96	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		RS97	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		L2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R100	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R101	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R103	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R104	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R105	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R106	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R111	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R112	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R113	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R114	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R116	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R117	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R118	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R119	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R12	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R120	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R122	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R123	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R124	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R13	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R132	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R133	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R134	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R135	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R14	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R141	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R142	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R146	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R147	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R149	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R15	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R152	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R154	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R155	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R156	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R157	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R158	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R16	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R160	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R162	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R168	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R169	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R17	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R170	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W

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		R171	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R173	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R175	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R177	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R178	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R181	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R185	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R186	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R187	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R188	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R19	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R195	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R196	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R197	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R204	0RH1502D622	MCR10EZHJ153 15KOHM 5% 1/8W
		R207	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R208	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R21	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R22	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R225	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R230	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R231	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R261	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R27	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R28	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R29	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R3	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R30	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R301	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R303	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R305	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R307	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R308	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R309	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R310	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R311	0RH0221D622	MCR10EZHJ2R2 2.2OHM 5% 1/8W
		R320	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R321	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R322	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R323	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R324	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R325	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R326	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R327	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R328	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R329	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R330	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R334	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R335	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R336	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R337	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R338	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R339	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R34	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R340	0RH3000D622	MCR10EZHJ301 300OHM 5% 1/8W
		R341	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R346	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R35	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R4	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R40	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R42	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R43	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R44	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R45	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R46	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R5	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R501	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R504	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R506	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R507	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R509	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R510	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R511	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R54	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R55	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R56	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R57	0RH1602D622	MCR10EZHJ163 16KOHM 5% 1/8W
		R59	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R6	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R60	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W
		R601	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R602	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R603	0RH1004D622	MCR10EZHJ105 1MOHM 5% 1/8W
		R605	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R606	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R607	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R608	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R609	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R61	0RH3900D622	MCR10EZHJ391 390OHM 5% 1/8W
		R610	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R611	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R612	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R613	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R614	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R615	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R616	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R617	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R618	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R619	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R62	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R620	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R621	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R622	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R628	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R630	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R631	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R632	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R634	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R635	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R636	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R67	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R68	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R69	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R70	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R700	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R701	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R702	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R703	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R704	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R705	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R706	0RH5100D622	MCR10EZHJ511 510OHM 5% 1/8W
		R707	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R71	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R72	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W

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		R752	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R753	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R755	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R756	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R757	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R758	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R759	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R76	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R760	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R761	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R769	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R770	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R773	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R774	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R775	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R776	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R780	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R781	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R782	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R8	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R804	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R805	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R810	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R811	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R812	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R814	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R905	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R906	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R907	0RH3901D622	MCR10EZHJ392 3.9KOHM 5% 1/8
		R921	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R923	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R924	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R934	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R935	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R936	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R937	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R938	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R939	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R940	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R947	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R948	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R949	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R950	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R965	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R970	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R971	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R972	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R973	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R974	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R975	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R976	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R977	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R978	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R979	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R980	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R981	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R982	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R99	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RF10	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RF12	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RF17	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		RF21	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W

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		RF22	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RF23	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RF25	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF27	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF28	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF29	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF30	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF31	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF4	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		RF5	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF6	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		RF8	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF9	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RIP10	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RIP17	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RIP2	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RIP23	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RIP24	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		RS11	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS15	0RH1004D622	MCR10EZHJ105 1MOHM 5% 1/8W
		RS19	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RS2	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS45	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS46	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS47	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS48	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS53	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RS72	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS73	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS74	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS75	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS76	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS81	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS86	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS87	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS88	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS89	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RS90	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RS91	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		OTHERs		
		X601	156-A02X	HC-49/U 27MHZ 25PPM 27MHZ 2
		X1	6202TST001C	SX-1 6MHZ 30PPM 6MHZ 30PPM
		X2	6202VDT002E	SX-1 20.25MHZ 20.25MHZ 30PP
		X501	6202TST003G	HC-49/SM5H 24.576MHZ 30PPM
		XF1	6202VDT002J	SX-1 13.5MHZ 30PPM 13.5MHZ
		XS1	6202VDT002B	SX-1 14.31818MHZ 30PPM 14.3
		IC1	6620F00017C	WSDIF-42T-2.54 42P 2.54MM D
		SW1	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A
		SW201	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A
		SW202	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A
		SWS1	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A
		LED BOARD		
		C1210	0CE3363F618	ESF336M016T1A5C05G 33uF 20%
		C1211	0CE3363F618	ESF336M016T1A5C05G 33uF 20%
		C1212	0CE3363F618	ESF336M016T1A5C05G 33uF 20%
		C1214	0CE3363F618	ESF336M016T1A5C05G 33uF 20%
		L1201	0LA0102K119	LAL02TB100K 10UH 10% - 160M
		L1202	0LA0102K119	LAL02TB100K 10UH 10% - 160M

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		R1272	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
		C1201	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1202	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1203	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1204	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1205	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1206	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1207	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1208	0CH3104K566	0805B104K500CT 100nF 10% 50
		C1216	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C1217	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		IC1201	0IPRP00533A	"UPD16311GC-AB6-A,LF 4.5TO5."
		IC1202	0IKE657830B	KID65783AF 30V 50V 960MW FL
		IC1203	0IMI623200B	M62320FP 4.5TO5.5V 0.05mA 4
		L1205	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L1206	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L1207	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L1208	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L1210	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L1211	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L1212	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		Q1201	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1202	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1203	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1204	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1205	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1206	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1207	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1208	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1210	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1211	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1212	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		R1201	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1202	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1203	0RH2202D622	MCR10EZHJ223 22KOHM 5% 1/8W
		R1204	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1205	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1206	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1207	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1208	0RH5100D622	MCR10EZHJ511 510OHM 5% 1/8W
		R1210	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R1211	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R1212	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R1213	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1214	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1215	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1216	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1217	0RH2202D622	MCR10EZHJ223 22KOHM 5% 1/8W
		R1218	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1220	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1221	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1222	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1226	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1227	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1228	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1229	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R1230	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1231	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1232	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1233	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R1234	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R1235	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8

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		R1236	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1237	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1238	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R1239	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1240	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1241	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1242	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1243	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1244	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1245	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1246	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1247	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1248	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1249	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1250	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1251	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1252	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1253	0RH0392D622	MCR10EZHJ390 39OHM 5% 1/8W
		R1254	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1255	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1256	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1257	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1258	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1259	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1260	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1261	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1262	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R1263	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1264	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R1265	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1266	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1267	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R1268	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1271	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R1275	0RH3302D622	MCR10EZHJ333 33KOHM 5% 1/8W
		R1276	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R1277	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1278	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R1279	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1280	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1281	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1282	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1283	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1284	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1285	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1286	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R1288	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		FRONT BOARD		
		C1000	0CN1010K519	RH UP050 B101K-B-B 100pF 10
		C1001	0CE476DF618	SMS5.0TP16VB47M 47uF 20% 16
		L1000	0LA0102K119	LAL02TB100K 10UH 10% - 160M
		SW1201	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		SW1202	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		SW1203	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		SW1204	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		SW1205	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		SW1206	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		SW1207	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		SW1208	6600R00001B	JTP1289 1C1P 15VDC 0.02A VE
		C2103	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V

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		C2104	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		CF1	0CH3104K566	0805B104K500CT 100nF 10% 50
		CF4	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		CF5	0CH6102K406	C2012S2L1H102JT 1nF 5% 50V
		L2108	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L2109	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		LF1	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		LF2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		LF3	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		LF4	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		R2100	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R2101	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R2102	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R2103	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R2104	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R2111	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R2113	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R2115	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R2117	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R2119	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R2123	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R2124	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R2150	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R2160	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		RF1	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		RF2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF3	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		RF4	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RF5	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		RF6	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		RF7	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		ZD2100	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD2101	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD2105	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD2106	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD2107	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD2108	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD2109	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZDF1	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZDF2	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZDF3	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZDF4	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZDF5	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		DIGITAL		
		C104	0CH3104K566	0805B104K500CT 100nF 10% 50
		C105	0CH3104K566	0805B104K500CT 100nF 10% 50
		C107	0CH3104K566	0805B104K500CT 100nF 10% 50
		C115	0CH3104K566	0805B104K500CT 100nF 10% 50
		C120	0CH3104K566	0805B104K500CT 100nF 10% 50
		C121	0CH3104K566	0805B104K500CT 100nF 10% 50
		C131	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C132	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C133	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C134	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C14	0CH3104K566	0805B104K500CT 100nF 10% 50
		C142	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C143	0CH3104K566	0805B104K500CT 100nF 10% 50
		C144	0CH3104K566	0805B104K500CT 100nF 10% 50
		C146	0CH3104K566	0805B104K500CT 100nF 10% 50
		C147	0CH3104K566	0805B104K500CT 100nF 10% 50

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		C160	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C161	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C162	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C163	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C164	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C165	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C166	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C167	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C17	0CH3104K566	0805B104K500CT 100nF 10% 50
		C20	0CH3104K566	0805B104K500CT 100nF 10% 50
		C22	0CH3104K566	0805B104K500CT 100nF 10% 50
		C23	0CH3104K566	0805B104K500CT 100nF 10% 50
		C26	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C27	0CH6220K416	C2012C0G1H220JT 22pF 5% 50V
		C28	0CH3104K566	0805B104K500CT 100nF 10% 50
		C303	0CH3104K566	0805B104K500CT 100nF 10% 50
		C304	0CH3104K566	0805B104K500CT 100nF 10% 50
		C306	0CH3104K566	0805B104K500CT 100nF 10% 50
		C307	0CH3104K566	0805B104K500CT 100nF 10% 50
		C31	0CH3104K566	0805B104K500CT 100nF 10% 50
		C312	0CH3104K566	0805B104K500CT 100nF 10% 50
		C319	0CH3104K566	0805B104K500CT 100nF 10% 50
		C32	0CH3104K566	0805B104K500CT 100nF 10% 50
		C320	0CH3104K566	0805B104K500CT 100nF 10% 50
		C321	0CH3104K566	0805B104K500CT 100nF 10% 50
		C322	0CH3104K566	0805B104K500CT 100nF 10% 50
		C33	0CH3104K566	0805B104K500CT 100nF 10% 50
		C330	0CH3104K566	0805B104K500CT 100nF 10% 50
		C331	0CH3104K566	0805B104K500CT 100nF 10% 50
		C332	0CH3104K566	0805B104K500CT 100nF 10% 50
		C333	0CH3104K566	0805B104K500CT 100nF 10% 50
		C334	0CH3104K566	0805B104K500CT 100nF 10% 50
		C335	0CH3104K566	0805B104K500CT 100nF 10% 50
		C336	0CH3104K566	0805B104K500CT 100nF 10% 50
		C34	0CH3104K566	0805B104K500CT 100nF 10% 50
		C35	0CH3104K566	0805B104K500CT 100nF 10% 50
		C36	0CH3104K566	0805B104K500CT 100nF 10% 50
		C37	0CH3104K566	0805B104K500CT 100nF 10% 50
		C38	0CH3104K566	0805B104K500CT 100nF 10% 50
		C39	0CH3104K566	0805B104K500CT 100nF 10% 50
		C40	0CH3104K566	0805B104K500CT 100nF 10% 50
		C41	0CH3104K566	0805B104K500CT 100nF 10% 50
		C42	0CH3104K566	0805B104K500CT 100nF 10% 50
		C43	0CH3104K566	0805B104K500CT 100nF 10% 50
		C44	0CH3104K566	0805B104K500CT 100nF 10% 50
		C45	0CH3104K566	0805B104K500CT 100nF 10% 50
		C46	0CH3104K566	0805B104K500CT 100nF 10% 50
		C47	0CH3104K566	0805B104K500CT 100nF 10% 50
		C48	0CH3104K566	0805B104K500CT 100nF 10% 50
		C49	0CH3104K566	0805B104K500CT 100nF 10% 50
		C50	0CH3104K566	0805B104K500CT 100nF 10% 50
		C51	0CH3104K566	0805B104K500CT 100nF 10% 50
		C52	0CH3104K566	0805B104K500CT 100nF 10% 50
		C53	0CH3104K566	0805B104K500CT 100nF 10% 50
		C54	0CH3104K566	0805B104K500CT 100nF 10% 50
		C55	0CH3104K566	0805B104K500CT 100nF 10% 50
		C56	0CH3104K566	0805B104K500CT 100nF 10% 50
		C57	0CH3104K566	0805B104K500CT 100nF 10% 50
		C58	0CH3104K566	0805B104K500CT 100nF 10% 50
		C59	0CH3104K566	0805B104K500CT 100nF 10% 50
		C62	0CH3104K566	0805B104K500CT 100nF 10% 50
		C63	0CH3104K566	0805B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C64	0CH3104K566	0805B104K500CT 100nF 10% 50
		C65	0CH3104K566	0805B104K500CT 100nF 10% 50
		C66	0CH3104K566	0805B104K500CT 100nF 10% 50
		C67	0CH3104K566	0805B104K500CT 100nF 10% 50
		C7	0CH3104K566	0805B104K500CT 100nF 10% 50
		C78	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C79	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C80	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C81	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C83	0CH3104K566	0805B104K500CT 100nF 10% 50
		C85	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C86	0CH3104K566	0805B104K500CT 100nF 10% 50
		C87	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C88	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C90	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C93	0CH3104K566	0805B104K500CT 100nF 10% 50
		C94	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C95	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		IC102	0IPH742440F	74LVC244AD 1.2TO3.6V 0.01mA
		IC103	0IPH742440F	74LVC244AD 1.2TO3.6V 0.01mA
		IC104	0IMCRMZ001B	MP1583DN-LF-Z 4.75TO23V 21V
		IC105	0IMCRMZ001B	MP1583DN-LF-Z 4.75TO23V 21V
		IC304	0IPH743730E	74HCT373D 4.5TO5.5V 0.008mA
		IC305	0IPH743730E	74HCT373D 4.5TO5.5V 0.008mA
		IC7	0IAL242561B	AT24C256W-10SU-2.7V 256KBIT
		L101	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L102	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L11	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L111	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		L12	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L205	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L21	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		R109	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R110	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R111	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R112	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R113	0RH2701D622	MCR10EZHJ272 2.7KOHM 5% 1/8
		R117	0RH0472D622	MCR10EZHJ470 47OHM 5% 1/8W
		R118	0RH0472D622	MCR10EZHJ470 47OHM 5% 1/8W
		R119	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R120	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R121	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R122	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R123	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R124	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R125	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R126	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R127	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R128	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R129	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R130	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R131	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R132	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R133	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R134	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R135	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R136	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R137	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R138	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R139	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R140	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R141	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W

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		R146	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R147	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R148	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R149	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R15	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R158	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R159	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R160	0RH8201D622	MCR10EZHJ822 8.2KOHM 5% 1/8
		R161	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R17	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R23	0RH3303D622	MCR10EZHJ334 330KOHM 5% 1/8
		R27	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R28	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R29	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R3	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R317	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R319	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R32	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R33	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R343	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R346	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R348	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R349	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R360	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R361	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R38	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R39	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R40	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R405	0RH1802D622	MCR10EZHJ183 18KOHM 5% 1/8W
		R406	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R407	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R41	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R42	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R43	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R433	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R434	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R44	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R45	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R46	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R47	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R48	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R49	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R50	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R55	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R56	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R6	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R7	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R73	0RH1002D422	MCR10EZHF103 10KOHM 1% 1/8W
		R74	0RH1002D422	MCR10EZHF103 10KOHM 1% 1/8W
		R76	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R8	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R88	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R9	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		SW1	140-058E	THVV502GBC 1C1P 12VDC 0.05A
		TU101	6700DF0002A	TDFB-G236P DVB-T(COFDM) 170
		X1	6212AC2329A	CFS-206 32.768KHZ 20PPM 32.
		X2	6204V00001H	27MHZ 25PPM BXV-231H 27MHZ
		AR301	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR302	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR303	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR304	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR305	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		AR306	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR307	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR308	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR309	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR310	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR311	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR312	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR313	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR314	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR315	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR316	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR317	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR318	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR319	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR320	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		C10	0CE477VF6DC	MVG8.0TP16VC470M 470uF 20%
		C101	0CE227VF6DC	VGV227M016S0ANG030 220uF 20
		C102	0CE227VF6DC	VGV227M016S0ANG030 220uF 20
		C103	0CE227VF6DC	VGV227M016S0ANG030 220uF 20
		C106	0CH3104K566	0805B104K500CT 100nF 10% 50
		C108	0CH3104K566	0805B104K500CT 100nF 10% 50
		C109	0CH3104K566	0805B104K500CT 100nF 10% 50
		C110	0CH3104K566	0805B104K500CT 100nF 10% 50
		C111	0CH3104K566	0805B104K500CT 100nF 10% 50
		C112	0CH3104K566	0805B104K500CT 100nF 10% 50
		C113	0CH3104K566	0805B104K500CT 100nF 10% 50
		C114	0CH3104K566	0805B104K500CT 100nF 10% 50
		C116	0CH3104K566	0805B104K500CT 100nF 10% 50
		C117	0CH3104K566	0805B104K500CT 100nF 10% 50
		C118	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C119	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C12	0CH3104K566	0805B104K500CT 100nF 10% 50
		C123	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C124	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C125	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C126	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C13	0CE106SH6DC	VMV106M025S0ANB010 10uF 20%
		C136	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C137	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C145	0CE227VH6DC	MV10TP25VC220M 220uF 20% 25
		C15	0CH3104K566	0805B104K500CT 100nF 10% 50
		C16	0CH3104K566	0805B104K500CT 100nF 10% 50
		C18	0CH3104K566	0805B104K500CT 100nF 10% 50
		C19	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C205	0CE227VF6DC	VGV227M016S0ANG030 220uF 20
		C206	0CH3104K566	0805B104K500CT 100nF 10% 50
		C24	0CH3104K566	0805B104K500CT 100nF 10% 50
		C25	0CH3104K566	0805B104K500CT 100nF 10% 50
		C29	0CH3104K566	0805B104K500CT 100nF 10% 50
		C3	0CE477VF6DC	MVG8.0TP16VC470M 470uF 20%
		C30	0CH3104K566	0805B104K500CT 100nF 10% 50
		C305	0CH3104K566	0805B104K500CT 100nF 10% 50
		C308	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C309	0CH3104K566	0805B104K500CT 100nF 10% 50
		C310	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C311	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C313	0CH3104K566	0805B104K500CT 100nF 10% 50
		C314	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C315	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C316	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C317	0CH3104K566	0805B104K500CT 100nF 10% 50
		C318	0CH3104K566	0805B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C337	0CH6100K116	C2012C0G1H100DT 10pF 0.5PF
		C4	0CE477VF6DC	MVG8.0TP16VC470M 470uF 20%
		C60	0CH3104K566	0805B104K500CT 100nF 10% 50
		C61	0CH3104K566	0805B104K500CT 100nF 10% 50
		C68	0CH3104K566	0805B104K500CT 100nF 10% 50
		C72	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C73	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C74	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C75	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C76	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C77	0CH6470K416	C2012C0G1H470JT 47pF 5% 50V
		C8	0CH3104K566	0805B104K500CT 100nF 10% 50
		C82	0CE227VH6DC	MV10TP25VC220M 220uF 20% 25
		C89	0CE477VF6DC	MVG8.0TP16VC470M 470uF 20%
		C9	0CH3104K566	0805B104K500CT 100nF 10% 50
		C91	0CH3104K566	0805B104K500CT 100nF 10% 50
		C92	0CE477VF6DC	MVG8.0TP16VC470M 470uF 20%
		CN200	6602V12005A	12507WR-20A00 20P 1.25MM 1R
		D1	0DR340009AA	MBRS340 525MV 40V 4A - - -
		D4	0DR340009AA	MBRS340 525MV 40V 4A - - -
		IC101	0IMCRSG010A	ST3232CDR 3.0TO5.5 - SOP R/
		IC2	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		IC3	0IZZTSA115A	ST 48P 37LP1DA-ZA STI5516 F
		IC303	0ISTLPH048A	74LVC245APW 1.2TO3.6V 0.01m
		IC306	0IMCR02020A	AT90FJR-5VTX(CIMAX-TM) ATME
		IC4	0IMMRSS107B	"K4S281632F-UC75,LF 128MBIT"
		IC6	0ILNRSG018A	STI5516SWC - - - - BGA TR 3
		IC8	0IMMRSS107B	"K4S281632F-UC75,LF 128MBIT"
		IC9	0ITO741570C	TC74LCX157FT 2TO3.6V 0.01mA
		L10	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L103	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L104	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L105	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L106	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L107	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L108	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L109	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L120	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		L121	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		L122	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		L123	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		L13	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L14	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L15	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L16	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L17	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L18	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L19	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L20	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L23	6140VR0008B	SLF12575T-150M4R7 15UH 20%
		L24	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L25	6140VR0008B	SLF12575T-150M4R7 15UH 20%
		L26	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		L5	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L6	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L7	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L8	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		L9	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		R100	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R101	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R102	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R103	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W

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		R104	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R105	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R106	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R107	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R108	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R11	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R114	0RH6800D622	MCR10EZHJ681 680OHM 5% 1/8W
		R115	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R116	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R13	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R142	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R143	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R144	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R145	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R16	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R18	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R19	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R2	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R20	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R21	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R211	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R212	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R213	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R215	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R216	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R217	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R218	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R22	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R24	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R25	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R26	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R30	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R31	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R316	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R335	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R34	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R340	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R341	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R342	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R344	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R345	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R347	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R35	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R350	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R351	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R352	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R354	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R355	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R356	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R357	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R358	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R359	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R36	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R362	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R363	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R364	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R365	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R37	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R4	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R413	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R414	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R415	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W

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		R416	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R417	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R418	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R419	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R420	0RH1200D622	MCR10EZHJ121 120OHM 5% 1/8W
		R421	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R422	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R423	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R425	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R426	0RH1502D622	MCR10EZHJ153 15KOHM 5% 1/8W
		R427	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R428	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R429	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R431	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R432	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R435	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R436	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R437	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R438	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R439	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R5	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R53	0RH1500D622	MCR10EZHJ151 150OHM 5% 1/8W
		R54	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R57	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R58	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R61	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R62	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R63	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R64	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R65	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R66	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R67	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R68	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R69	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R70	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R71	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R72	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R75	0RH2000D422	MCR10EZHF201 200OHM 1% 1/8W
		R77	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R78	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R79	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R80	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R81	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W
		R82	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R83	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R84	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R85	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R86	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
		R87	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R90	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R92	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R93	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R96	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R98	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R99	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W
JACK				
		B10	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B11	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B12	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B7	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X

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		B8	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B9	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		C204	0CH3104K566	0805B104K500CT 100nF 10% 50
		C208	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C209	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C210	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C211	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C220	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C221	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C243	0CH5471K416	C2012C0G1H471JT 470pF 5% 50
		C245	0CH5471K416	C2012C0G1H471JT 470pF 5% 50
		C246	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C247	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C248	0CH6221K416	C2012C0G1H221JT 220pF 5% 50
		C249	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C250	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C251	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C266	0CH5471K416	C2012C0G1H471JT 470pF 5% 50
		C276	0CH5471K416	C2012C0G1H471JT 470pF 5% 50
		C293	0CH6221K416	C2012C0G1H221JT 220pF 5% 50
		C294	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C297	0CH5471K416	C2012C0G1H471JT 470pF 5% 50
		C298	0CH5471K416	C2012C0G1H471JT 470pF 5% 50
		C301	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C302	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C304	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C305	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C401	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C402	0CH3104K566	0805B104K500CT 100nF 10% 50
		C404	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C406	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C408	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C409	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C418	0CH3104K566	0805B104K500CT 100nF 10% 50
		C424	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C426	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C427	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C428	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C429	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C430	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C433	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C435	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C437	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C438	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C439	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C440	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C441	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C442	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C443	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C444	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C445	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C446	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C458	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C459	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C462	0CH3104K566	0805B104K500CT 100nF 10% 50
		C464	0CH3104K566	0805B104K500CT 100nF 10% 50
		C500	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C511	0CH3104K566	0805B104K500CT 100nF 10% 50
		C513	0CH3104K566	0805B104K500CT 100nF 10% 50
		C6	0CH3104K566	0805B104K500CT 100nF 10% 50
		C613	0CH6560K416	C2012C0G1H560JT 56pF 5% 50V
		C614	0CH6560K416	C2012C0G1H560JT 56pF 5% 50V

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		C615	0CH6560K416	C2012C0G1H560JT 56pF 5% 50V
		C617	0CH3104K566	0805B104K500CT 100nF 10% 50
		C625	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C630	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C632	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C634	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C636	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C638	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C641	0CH3104K566	0805B104K500CT 100nF 10% 50
		C642	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C643	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		C646	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C647	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C652	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C654	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C655	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C657	0CH3104K566	0805B104K500CT 100nF 10% 50
		C661	0CH3104K566	0805B104K500CT 100nF 10% 50
		C679	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C680	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C990	0CH3104K566	0805B104K500CT 100nF 10% 50
		CED1	0CH3104K566	0805B104K500CT 100nF 10% 50
		CED2	0CH3104K566	0805B104K500CT 100nF 10% 50
		CT12	0CH3104K566	0805B104K500CT 100nF 10% 50
		CT13	0CH6101K416	C2012C0G1H101JT 100pF 5% 50
		CT2	0CH3472K516	C2012Y5P1H472KT 4.7nF 10% 5
		CT5	0CH3104K566	0805B104K500CT 100nF 10% 50
		CT7	0CH3104K566	0805B104K500CT 100nF 10% 50
		CT8	0CH6151K416	C2012C0G1H151JT 150pF 5% 50
		CT9	0CH6151K416	C2012C0G1H151JT 150pF 5% 50
		D201	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D202	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D203	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D206	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D208	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D216	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D218	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D219	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D220	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D223	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D224	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		D225	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D301	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D741	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		DD3	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		L204	0LC1020101A	FI-B2012-102KJT 1UH 10% - 1
		L205	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L206	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L207	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L208	0LC1020101A	FI-B2012-102KJT 1UH 10% - 1
		L209	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L212	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L213	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L218	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L219	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L220	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L221	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L222	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L223	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L301	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L402	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L403	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X

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		L404	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L500	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L501	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L502	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L503	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L504	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L505	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L506	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L507	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L508	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L509	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L510	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L511	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L601	0LC2232101A	FI-D3216-223KJT 22UH 10% -
		L602	0LC2232101A	FI-D3216-223KJT 22UH 10% -
		L603	0LC2232101A	FI-D3216-223KJT 22UH 10% -
		L990	0LC6832101A	FI-C3216-682KJT 6.8UH 10% -
		LT1	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		LT2	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		Q300	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q301	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q310	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q311	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q404	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q422	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q423	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q700	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q701	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		QED1	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		QT3	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		QT4	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		R101	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R102	0RH3600D622	MCR10EZHJ361 360OHM 5% 1/8W
		R1266	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R201	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R202	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R204	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R206	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		R208	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R211	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R212	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R213	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R214	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R221	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R222	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R223	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R224	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R225	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R227	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R228	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R229	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R234	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R235	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R236	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R237	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R238	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R239	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R240	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R241	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R242	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R243	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R244	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W

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		R245	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R246	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R247	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R248	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R249	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R250	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R251	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R252	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R253	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R254	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R255	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R256	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R257	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R258	6210TCE001P	HB-1S2012-121JT 120OHM 2X1.
		R259	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R260	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R261	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R262	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R263	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R264	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R265	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R266	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R268	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R274	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R275	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R292	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R293	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R294	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R296	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R299	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R300	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R301	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R302	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R303	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R304	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R305	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R306	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8
		R308	0RH3902D622	MCR10EZHJ393 39KOHM 5% 1/8W
		R313	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R314	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R315	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R316	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R317	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R318	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R319	0RH7500D622	MCR10EZHJ751 750OHM 5% 1/8W
		R322	0RH5102D622	MCR10EZHJ513 51KOHM 5% 1/8W
		R325	0RH5101D622	MCR10EZHJ512 5.1KOHM 5% 1/8
		R326	0RH5101D622	MCR10EZHJ512 5.1KOHM 5% 1/8
		R368	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R369	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R371	0RH0222D622	MCR10EZHJ220 22OHM 5% 1/8W
		R374	0RH3902D622	MCR10EZHJ393 39KOHM 5% 1/8W
		R375	0RH5102D622	MCR10EZHJ513 51KOHM 5% 1/8W
		R376	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R377	0RH5101D622	MCR10EZHJ512 5.1KOHM 5% 1/8
		R378	0RH5101D622	MCR10EZHJ512 5.1KOHM 5% 1/8
		R381	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R383	0RH0682D622	MCR10EZHJ680 68OHM 5% 1/8W
		R384	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R385	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R401	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R404	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2

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		R406	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R408	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R409	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R413	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R416	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R426	0RH3900D622	MCR10EZHJ391 390OHM 5% 1/8W
		R436	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R437	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R438	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R439	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R440	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R441	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R442	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R445	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R447	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R449	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R450	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R451	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R452	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R453	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R454	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R455	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R456	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R457	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R458	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R470	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R472	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R477	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R478	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R479	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R483	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R500	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R501	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R502	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R504	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R602	0RH3300D622	MCR10EZHJ331 330OHM 5% 1/8W
		R605	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R606	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R607	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R609	0RH0102D622	MCR10EZHJ100 10OHM 5% 1/8W
		R612	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R622	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R623	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8
		R624	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R626	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8
		R627	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R628	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R636	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R637	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R638	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R639	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R644	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R645	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8
		R647	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R648	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8
		R655	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R656	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R661	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R662	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R663	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R664	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R665	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2

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		R666	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R673	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R674	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R675	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R677	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8
		R678	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R679	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R681	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8
		R682	0RH4703D622	MCR10EZHJ474 470KOHM 5% 1/8
		R685	0RH3302D622	MCR10EZHJ333 33KOHM 5% 1/8W
		R688	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R700	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R701	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R702	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R703	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R704	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R726	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R737	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R738	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R800	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R801	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R802	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R804	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R858	0RH3302D622	MCR10EZHJ333 33KOHM 5% 1/8W
		R859	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R860	0RH9100D622	MCR10EZHJ911 910OHM 5% 1/8W
		R861	0RH3600D622	MCR10EZHJ361 360OHM 5% 1/8W
		R862	0RH5600D622	MCR10EZHJ561 560OHM 5% 1/8W
		R863	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R91	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R92	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R93	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RB1	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		RED1	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RED2	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RED3	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RED6	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		RED7	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		RG1	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		RR1	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		RT10	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RT12	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		RT13	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		RT14	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		RT27	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RT29	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		RT30	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		RT32	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		RT5	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		DT1	0DZ330009DF	MTZJ33B 33V 30.32TO31.88V 6
		IC907	0ISA722200C	"LA7222-(E),LF 8TO13V - - 35"
		TU1	6700MF0012C	TAFM-W103P NTSC M/N_PAL B/G
		TU2	6634D00009D	TASA-G202D NTSC 47TO862MHZ
		B1	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B2	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B3	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B4	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B5	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		B6	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		C100	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C101	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C102	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%

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		C103	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C107	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C108	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C109	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C110	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C2	0CH3224K946	C2012Y5V1H224ZT 220nF -20TO
		C201	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C212	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C213	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C222	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C223	0CH6331K416	C2012C0G1H331JT 330pF 5% 50
		C242	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C244	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C253	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C255	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C256	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C257	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C258	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C280	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C3	0CH3104K566	0805B104K500CT 100nF 10% 50
		C300	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C303	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C306	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C307	0CE476WH6DC	MVK8.0TP25VC47M 47uF 20% 25
		C4	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C407	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		C410	0CH3223K516	C2012Y5P1H223KT 22nF 10% 50
		C411	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C417	0CE476WK6DC	MVK8.0TP50VC47M 47uF 20% 50
		C431	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C432	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C434	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C436	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C447	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C448	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C449	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C450	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C451	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C452	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C453	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C455	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C457	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C461	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C463	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C470	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C5	0CH3104K566	0805B104K500CT 100nF 10% 50
		C501	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C502	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		C503	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		C504	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		C505	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		C510	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C512	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C550	0CE107WK6DC	MVK10TP50VC100M 100uF 20% 5
		C551	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20%
		C552	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C553	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C554	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C602	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C603	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C604	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C612	0CC020CK01A	C1608C0G1H020CT 2pF 0.25PF

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		C616	0CC020CK01A	C1608C0G1H020CT 2pF 0.25PF
		C626	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C627	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C628	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C629	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C631	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C633	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C635	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C637	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C639	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C640	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C644	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C645	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C653	0CH3474H946	C2012Y5V1E474ZT 470nF -20TO
		C656	0CE335VK6DC	VGV335M050S0ANB010 3.3uF 20
		C658	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C659	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C660	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C668	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C669	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C670	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C671	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C673	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C674	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C675	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C676	0CE106VK6DC	MV6.3TP50VC10M 10uF 20% 50V
		C677	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C678	0CH3105F946	C2012Y5V1C105ZT 1uF -20TO+8
		C700	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C701	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C702	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C703	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C731	0CH3104K566	0805B104K500CT 100nF 10% 50
		C732	0CH3104K566	0805B104K500CT 100nF 10% 50
		C733	0CH3104K566	0805B104K500CT 100nF 10% 50
		C734	0CE106VF6DC	VGV106M016S0ANB010 10uF 20%
		C735	0CH3103K516	C2012Y5P1H103KT 10nF 10% 50
		C99	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		C991	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		CT10	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		CT11	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20%
		CT14	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		CT4	0CE106VK6DC	MV6.3TP50VC10M 10uF 20% 50V
		CT6	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 1
		D209	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D210	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D211	0DZ510009EE	UDZS5.1B 5.1V 4.98TO5.2V 80
		D701	0DRSE00018B	SRV05-4.TCT 1.2V 6V 17.5V 1
		D702	0DRSE00018B	SRV05-4.TCT 1.2V 6V 17.5V 1
		D750	0DRSE00018B	SRV05-4.TCT 1.2V 6V 17.5V 1
		D751	0DRSE00018B	SRV05-4.TCT 1.2V 6V 17.5V 1
		IC1	0IPRPMA013A	"AN15865AAVT,PB 8.5TO9.5V_4."
		IC100	0IMCRFA010A	KA7809R 11.5TO24V 9V 150W D
		IC101	0ISS780800J	KA78M08RTM 10.5TO23V 8V - D
		IC102	0IMCRNS007C	LMS1587CS-ADJ 1.5TO5.75V -
		IC104	0IPMGFA061A	FAN1587AD33X 4.8TO10.3V 3.3
		IC105	0IPRP00602A	TPS2010ADR 2.7TO5.5V 8.6MSE
		IC2	0IPRP00590A	EL1881CSZ-T7 5.0VTO5.0V - 4
		IC200	0IPRPTI034B	"TPA6110A2DGNRG4,LF 2.5TO5.5"
		IC202	0ICS240213A	CAT24WC02J-TE13 2KBIT 256X8
		IC203	0ICS240213A	CAT24WC02J-TE13 2KBIT 256X8
		IC204	0ISTLFA058A	74F14SCX 4.5TO5.5V 25mA SCH

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		IC206	0IMMRCS013A	CAT24C21 1KBIT 128X8BIT 2.5
		IC207	0ISTL00026A	MC14066BDR2G 3TO18V 0.001mA
		IC502	0IMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK
		IC602	0IMCRMN028B	MSP4410K 3.1TO3.5V_4.75TO5.
		IC603	0IMCRTI001A	SN74HCT157DR 4.5TO5.5V 0.00
		IC605	0IKE704200J	KIA7042AF -0.3TO15V 4.2V 50
		IC606	0ISS780500H	KA78M05RTM 7TO20V 5V - DPAK
		IC908	0IMCRSG010A	ST3232CDR 3.0TO5.5 - SOP R/
		L101	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L102	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L401	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		P600	6630VF00530	12507WR-30A00 30P 1.25MM 1R
		P700	6602T12007D	GT121-31P-TD 31P 1.25MM 2R
		P800	6630VE00731	10022HS-31A02 31P 1.00MM FF
		P801	6630VE00731	10022HS-31A02 31P 1.00MM FF
		Q201	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q202	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q203	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q204	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q205	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q206	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q210	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q211	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q212	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q400	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q405	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q406	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q407	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q420	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q421	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q603	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q604	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q610	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q611	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q612	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q613	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		R1	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R220	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R230	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R231	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R269	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R279	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R280	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R281	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W
		R282	0RH2001D622	MCR10EZHJ202 2KOHM 5% 1/8W
		R283	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R284	0RH2001D622	MCR10EZHJ202 2KOHM 5% 1/8W
		R285	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R3	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R400	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R402	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R403	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R405	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R407	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R410	0RH7502D622	MCR10EZHJ753 75KOHM 5% 1/8W
		R411	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R414	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R417	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R419	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R420	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R421	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W

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		R422	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R423	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R424	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R425	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R429	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R430	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R431	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R432	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R433	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R434	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R443	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R444	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R446	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R448	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R459	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R460	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R461	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R462	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R463	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R464	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R465	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R466	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R467	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R468	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R469	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R471	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R473	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R474	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		R475	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R476	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R480	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R481	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R484	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R485	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R486	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R490	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R491	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R492	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R493	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R494	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R506	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W
		R6	0RH6803D622	MCR10EZHJ684 680KOHM 5% 1/8
		R610	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R611	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R613	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R615	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R616	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R617	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R618	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R619	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R620	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R621	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R625	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R630	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R631	0RH2702D622	MCR10EZHJ273 27KOHM 5% 1/8W
		R632	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R633	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R634	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R646	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R653	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R654	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W
		R657	0RH2200D622	MCR10EZHJ221 220OHM 5% 1/8W

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		R658	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R659	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R660	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R676	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R680	0RH2201D622	MCR10EZHJ222 2.2KOHM 5% 1/8
		R683	0RH2002D622	MCR10EZHJ203 20KOHM 5% 1/8W
		R684	0RH2002D622	MCR10EZHJ203 20KOHM 5% 1/8W
		R686	0RH3302D622	MCR10EZHJ333 33KOHM 5% 1/8W
		R687	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R720	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R722	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R723	0RH4702D622	MCR10EZHJ473 47KOHM 5% 1/8W
		R728	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R8	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R803	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R850	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R851	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		R852	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R853	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R854	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R855	0RH3900D622	MCR10EZHJ391 390OHM 5% 1/8W
		R99	0RH2001D622	MCR10EZHJ202 2KOHM 5% 1/8W
		X601	6202VDT002H	SX-1 18.432MHZ 30PPM 18.432
		X-STUDIO BOARD		
		AR110	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR111	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		C101	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C102	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C103	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C104	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C105	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C106	0CH6150K416	C2012C0G1H150JT 15pF 5% 50V
		C107	0CK102CK56A	0603B102K500CT 1nF 10% 50V
		C108	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C109	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C110	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C111	0CH3222K516	C2012Y5P1H222KT 2.2nF 10% 5
		C112	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C113	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C114	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C115	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C117	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C118	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C119	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C120	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C121	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C122	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C123	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C124	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C126	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C127	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C130	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C131	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C132	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C135	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C137	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C138	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C139	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C140	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C141	0CK104CK56A	0603B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C146	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C148	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C149	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C150	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C159	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C163	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C164	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C165	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C166	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C167	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C168	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C169	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C170	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C171	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C172	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C173	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C174	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C180	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C181	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C182	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C183	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C184	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C185	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C186	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C187	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C188	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C189	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C190	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C191	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C192	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C193	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C194	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C195	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C196	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C197	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C198	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C199	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C202	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C207	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C208	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C209	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C210	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C212	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C231	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C232	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C233	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C234	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C235	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C237	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C240	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C245	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C247	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C248	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C303	0CK104CK56A	0603B104K500CT 100nF 10% 50
		IC109	0IMMRHY038E	HY57V561620CTP-H 256MBIT 4M
		IC116	0ISTL00002A	SN74CBTLV3257DGVR 2.3TO3.6V
		IC118	0ISTL00002A	SN74CBTLV3257DGVR 2.3TO3.6V
		IC119	0ISTL00002A	SN74CBTLV3257DGVR 2.3TO3.6V
		L112	0LC2000005H	FI-B2012-472KJT 4.7UH 10% -
		Q103	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q104	0TFON80009A	NTS2101PT1G P-CHANNEL MOSFE
		Q105	0TFON80004C	NTR4501NT1G N-CHANNEL MOSFE

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R102	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R104	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R107	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R108	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R109	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R111	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R112	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R118	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R119	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R120	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R122	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R125	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R126	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R130	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R132	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R142	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R143	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R144	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R157	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R158	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R161	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R162	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R165	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R168	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R170	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R171	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R172	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R173	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R174	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R175	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R176	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R177	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R178	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R179	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R180	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R181	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R182	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R186	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R195	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R198	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R199	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/1
		R200	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/1
		R201	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R202	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R206	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R207	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R215	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R216	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R217	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R218	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R219	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W
		R220	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R224	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R225	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W
		R226	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R230	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R239	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R241	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R243	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R270	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R272	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R273	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R274	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R275	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R278	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R279	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R280	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R284	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R285	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R286	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R287	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R288	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R289	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R290	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R291	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R301	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R321	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R327	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R328	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R329	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		AR107	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR108	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR109	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR112	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		AR113	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		C128	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C129	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C133	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C134	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C136	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C145	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C147	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C151	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C152	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C153	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C154	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C158	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C160	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C161	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C162	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C175	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C176	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C178	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C179	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C200	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C201	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C203	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C204	0CE107SF6DC	VMV107M016S0ANE010 100uF 20
		C206	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C211	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C236	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C238	0CE226VF6DC	VGV226M016S0ANC010 22uF 20%
		C241	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		C243	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C246	0CE105VK6DC	VGV105M050S0ANB010 1uF 20%
		C301	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C304	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C305	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		CARD101	6630C00010B	152-1001005000-CV SD 68P AN
		CARD102	6630C00012C	149-1110012901 MEMORY STIC
		CN101	6602T12004L	12505WS-12A00 12P 1.25MM 1R
		CN103	6630VF00530	12507WR-30A00 30P 1.25MM 1R
		IC101	0IPRPAL005A	AT76C120-UI-OJZ208 1.8VTO3.
		IC102	0IZZTSA116A	ATMEL 48P 37LP1DA-ZA X-STUD

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC103	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		IC105	0IPRPPH041A	UDA1334BTS 1.8VTO3.6V 44.1K
		IC106	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		IC107	0TRON80020A	NUS2401SNT1G PNP/NPN -7V 7V
		IC108	0IPMGS1012A	SC1592ISTRT 3TO16V 1.8V - S
		IC110	0IMCRSJ001A	SC1565IST-1.8 2.2TO5.5V 1.8
		IC112	0IMMRAT006B	EPCS1SI8N 1MBIT 256KX4BIT 3
		IC113	0IMMRHY033B	HY57V643220DTP-6 64MBIT 512
		IC114	0IPRPIC016A	ICS570BLFT 3.15TO3.45V - -
		IC115	0IPRPFA014A	FMS3818KRCX-NL 3TO3.6V - 8B
		IC123	0IPMGS1012A	SC1592ISTRT 3TO16V 1.8V - S
		IC126	0IPRPAT003A	EP1C4F324C8N 3TO3.6V 2.375T
		L102	0LC2000005H	FI-B2012-472KJT 4.7UH 10% -
		L103	6200VJT006A	STC222D EMI - 2.2nF - SMD T
		L104	6200VJT006A	STC222D EMI - 2.2nF - SMD T
		L110	0LC2000005H	FI-B2012-472KJT 4.7UH 10% -
		L111	0LC2000005H	FI-B2012-472KJT 4.7UH 10% -
		L113	6200QJ3001A	BMS400 LPF(EMI) 180MHZ 35pF
		L114	6200QJ3001A	BMS400 LPF(EMI) 180MHZ 35pF
		L115	6200QJ3001A	BMS400 LPF(EMI) 180MHZ 35pF
		L116	6200QJ3001A	BMS400 LPF(EMI) 180MHZ 35pF
		L117	6200QJ3001A	BMS400 LPF(EMI) 180MHZ 35pF
		L118	6200QJ3001A	BMS400 LPF(EMI) 180MHZ 35pF
		L119	6200QJ3001A	BMS400 LPF(EMI) 180MHZ 35pF
		Q102	0TFON80009A	NTS2101PT1G P-CHANNEL MOSFE
		R105	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R110	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R115	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R123	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R128	0RJ2492D477	MCR03EZPF2492 24.9KOHM 1% 1
		R140	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R147	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R148	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R192	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R203	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R204	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R205	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R208	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R209	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R210	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R211	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R212	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R213	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R214	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R227	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R228	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R229	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R240	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R242	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R246	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R248	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R249	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R250	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R253	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R254	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R255	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R256	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R257	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R258	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R260	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R263	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R264	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10

DATE: 2006. 02. 14.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R265	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R266	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R267	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R268	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R271	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R276	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R300	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R302	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R303	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R304	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R306	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R308	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R316	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R317	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R318	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R320	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R322	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R323	0RJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R324	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10
		R325	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		X101	6202TST003D	HC-49/SM5H 12MHZ 30PPM 12MH
		X102	6212AB2015H	HC49SM 18.5625MHZ 30PPM 16p
	LOGO BOARD			
		LED801	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED802	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED803	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED804	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED805	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED806	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED807	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED808	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED809	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED810	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED811	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED812	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED813	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED814	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED815	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		LED816	0DLNC0058AA	NSCW215T WHITE 4.0V 30mA 36
		C3100	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3101	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3102	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3103	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3104	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3105	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3106	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3107	0CE106SF6DC	VMV106M016S0ANB010 10uF 20%
		C3108	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C3109	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C3110	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C3111	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C3112	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C3113	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C3114	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C3115	0CK104CK56A	0603B104K500CT 100nF 10% 50
		Q3101	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q3102	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q3103	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q3104	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q3105	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50

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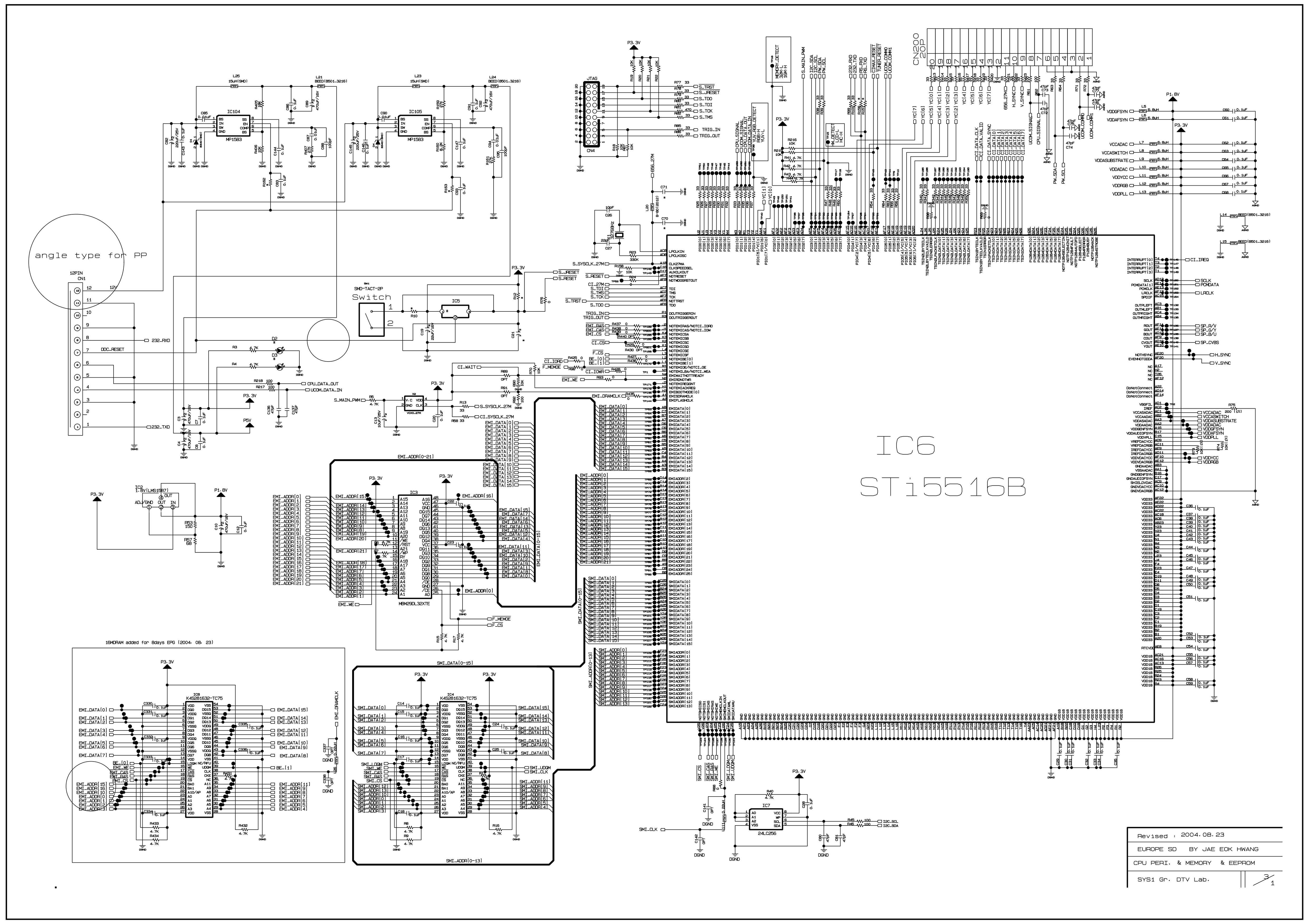
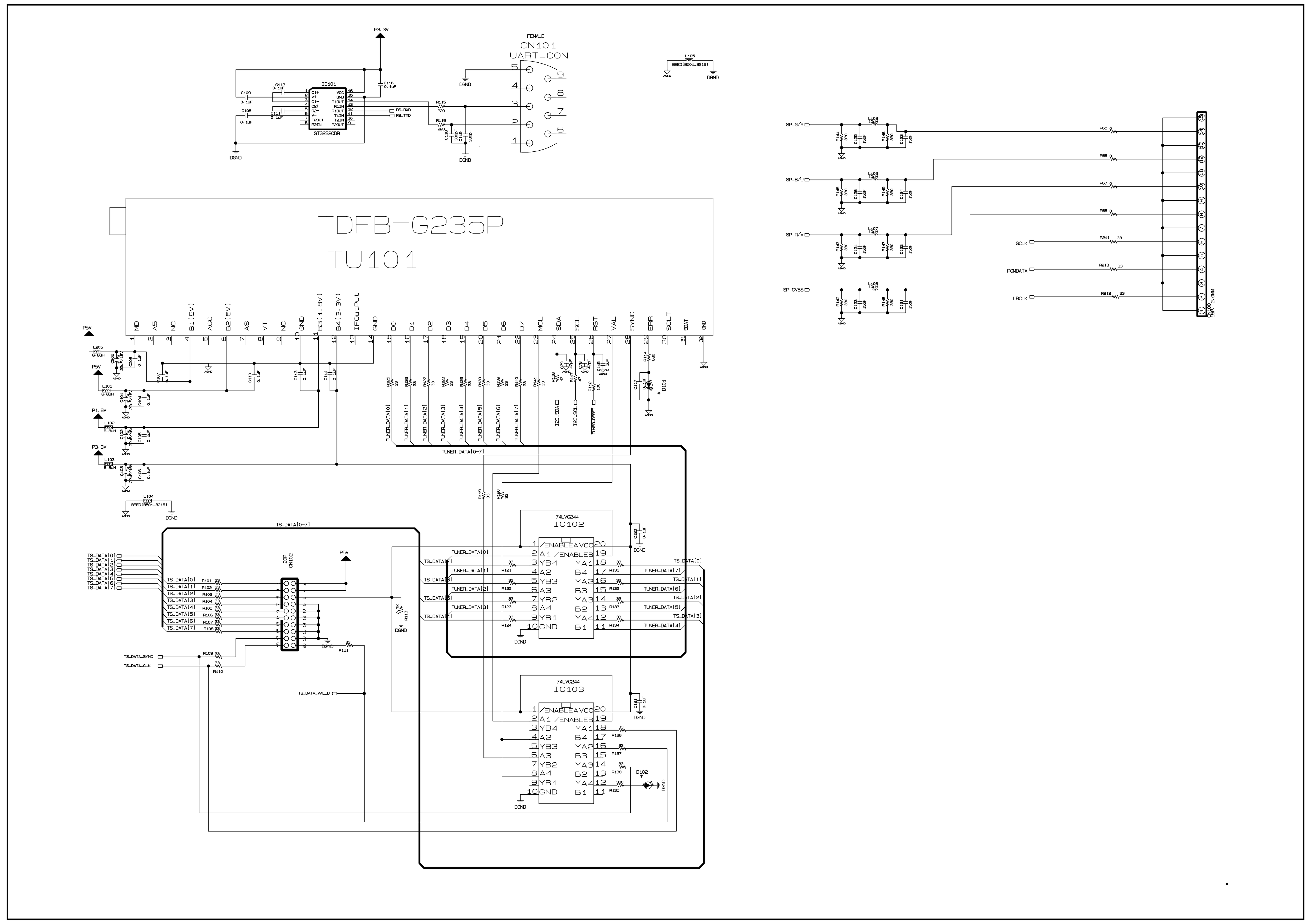
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q3106	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q3107	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q3108	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		R3101	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3102	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3103	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3104	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3105	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3106	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3107	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3108	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R3109	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3110	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3111	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3112	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3113	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3114	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3115	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3116	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3120	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W


angle type for PP
Switch
IC6
STi5516B
Revised : 2004.08.23
EUROPE SD BY JAE EOK HWANG
CPU PERI. & MEMORY & EEPROM
SYS1 Gr. DTV Lab.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TU101
74LX244
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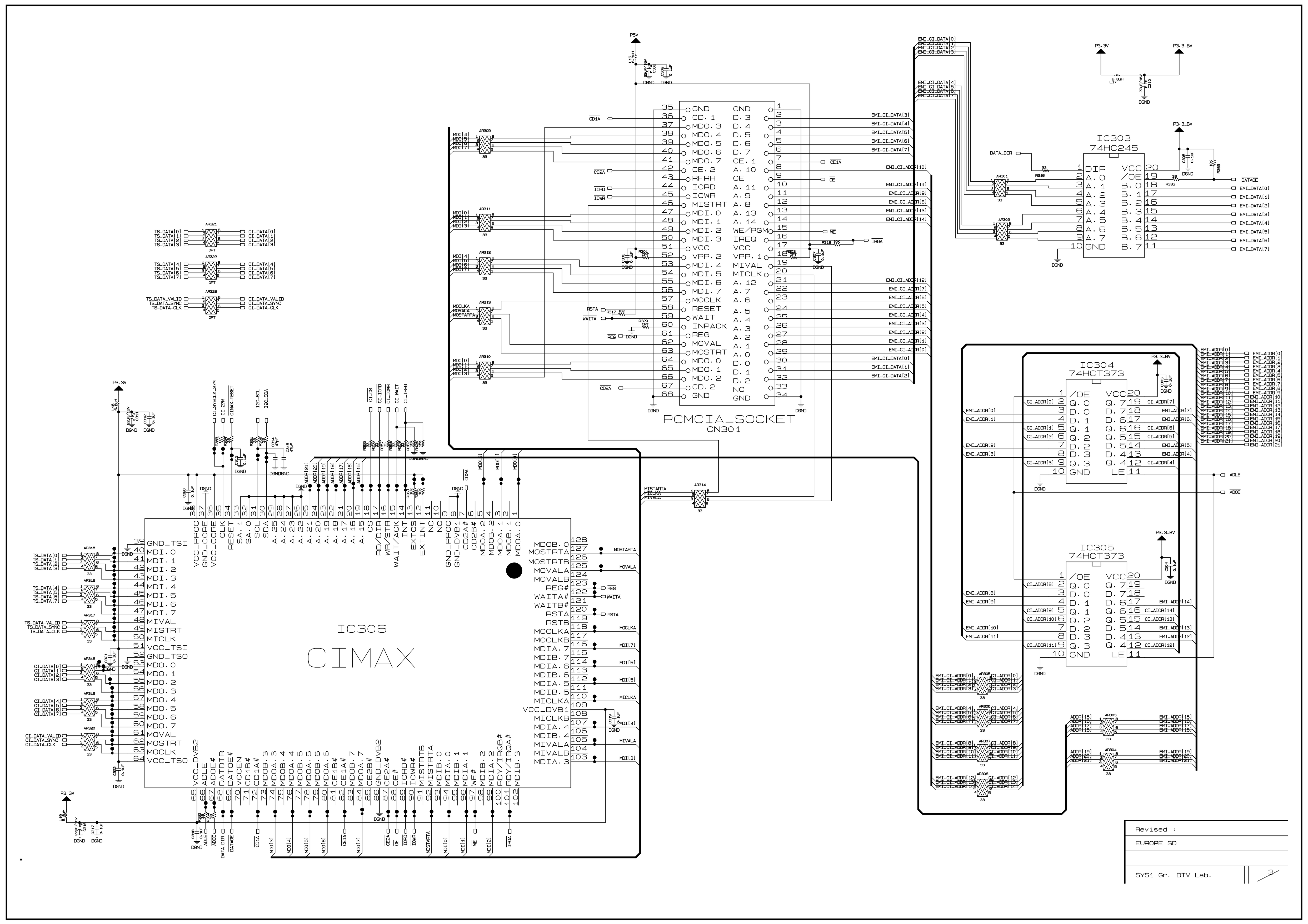
IC103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Revised :
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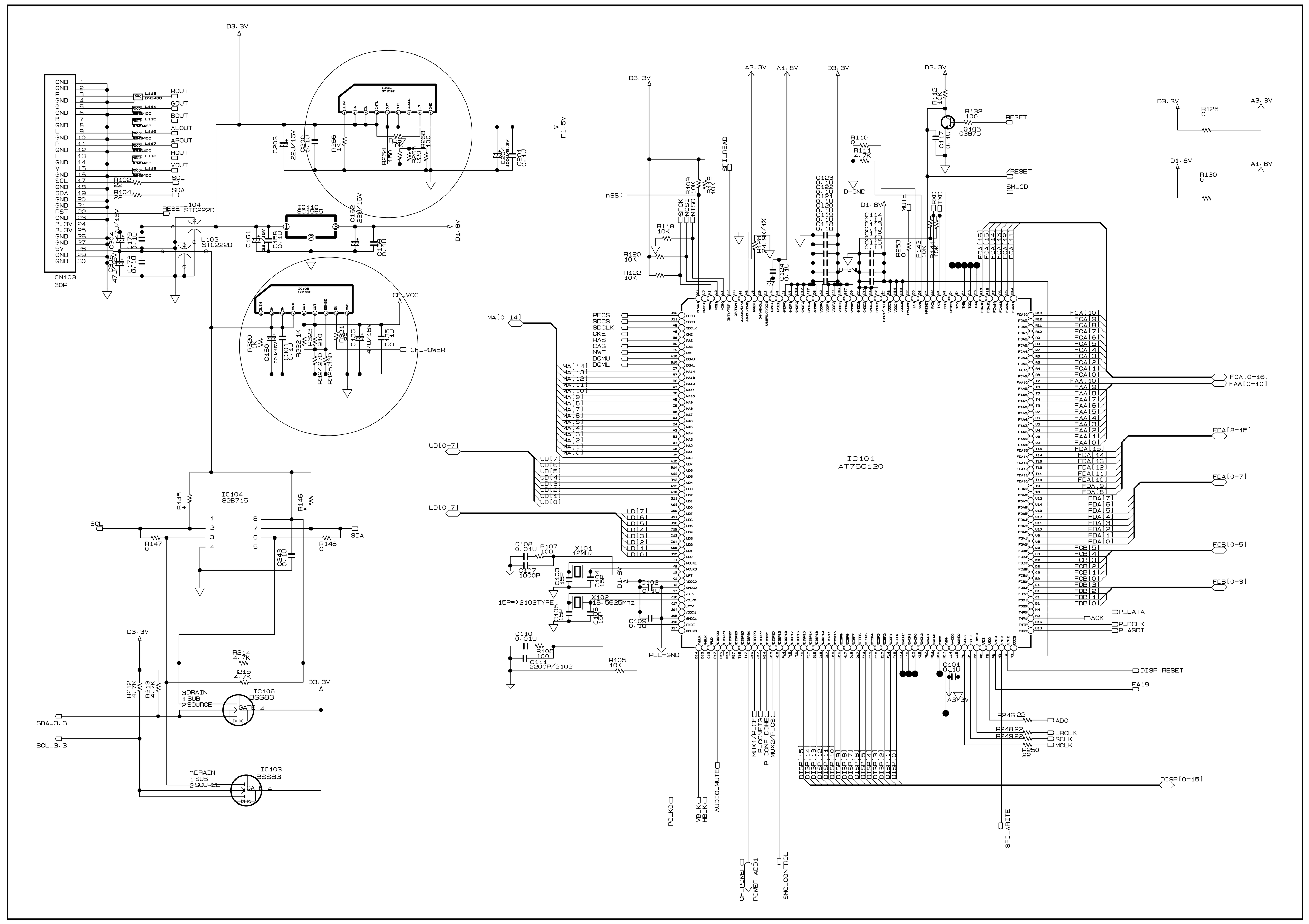
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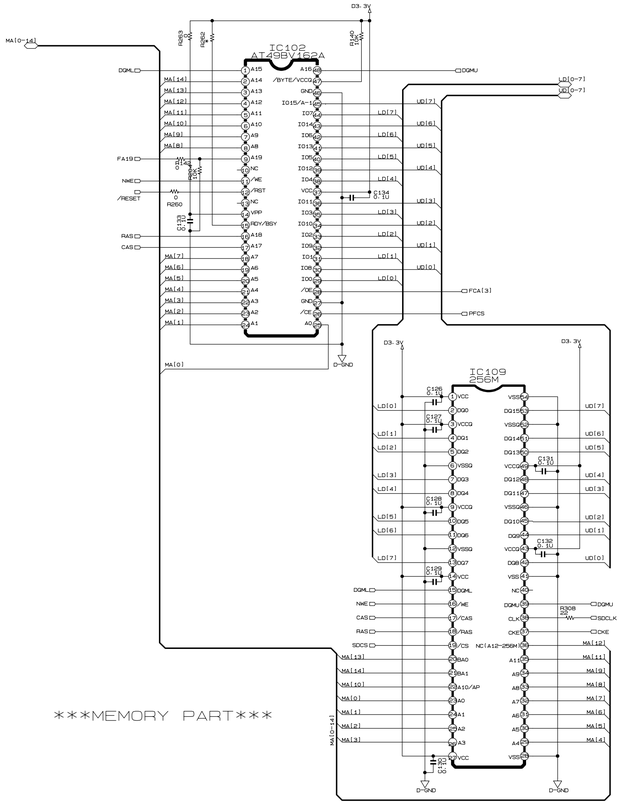
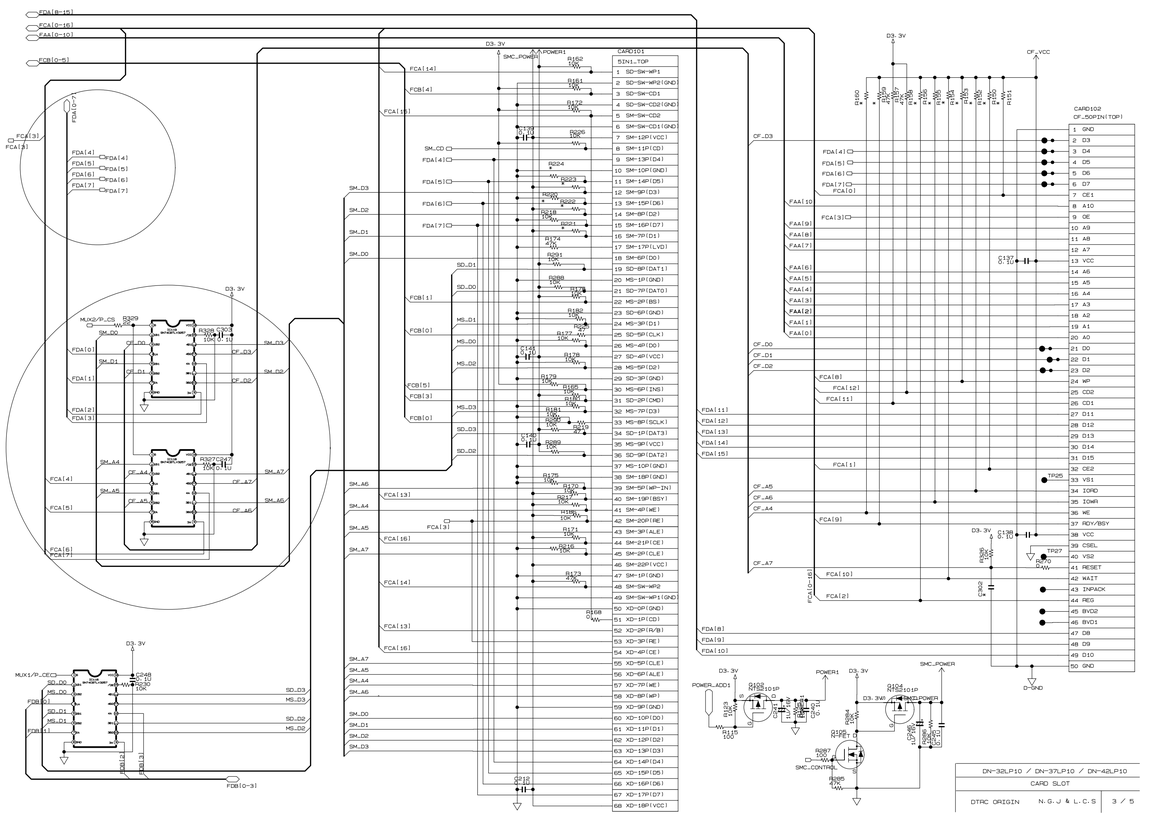
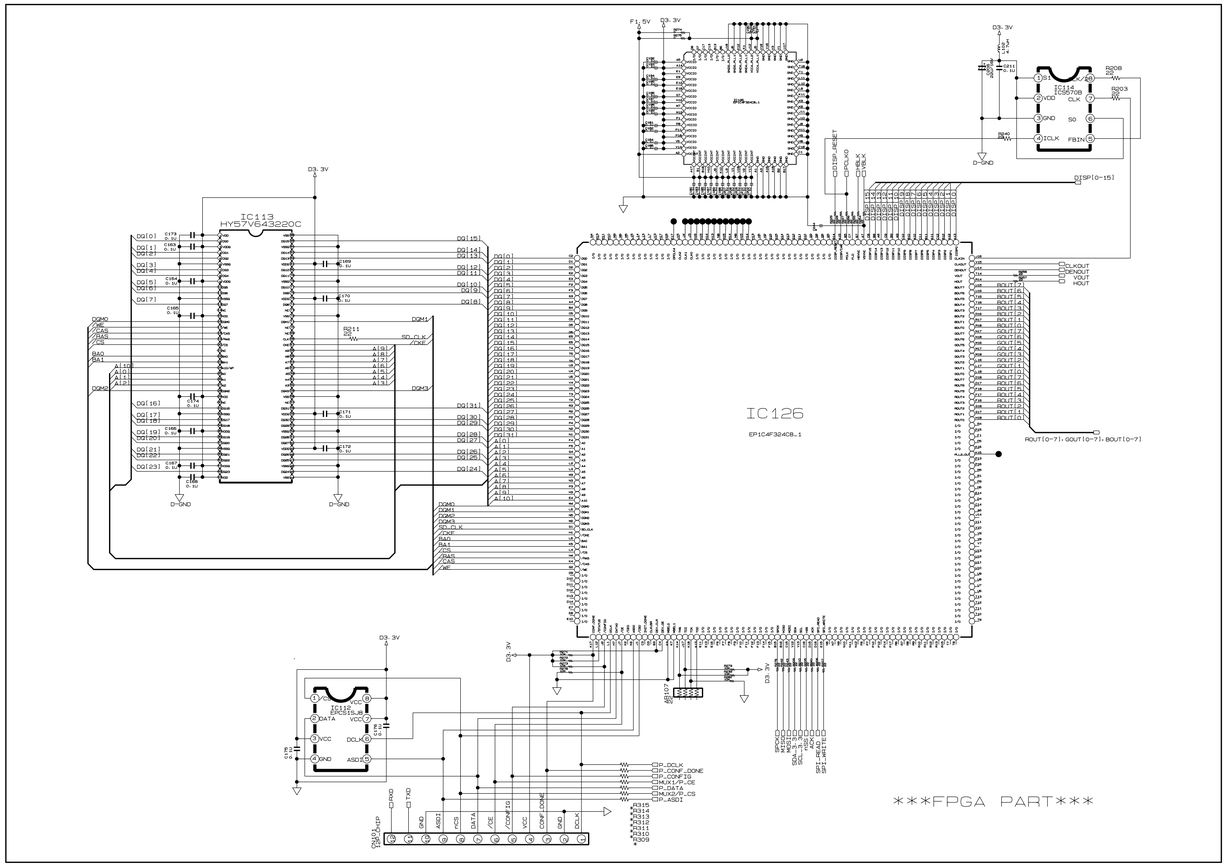
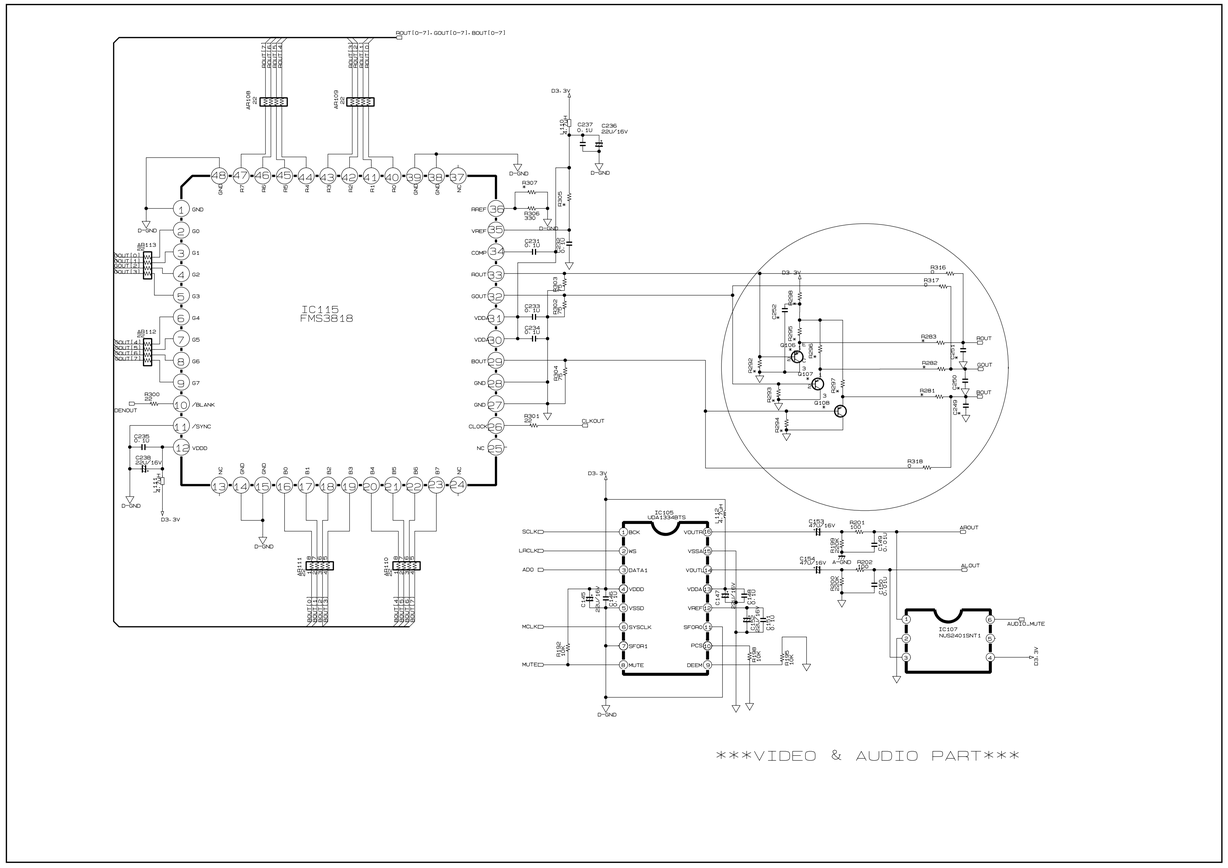




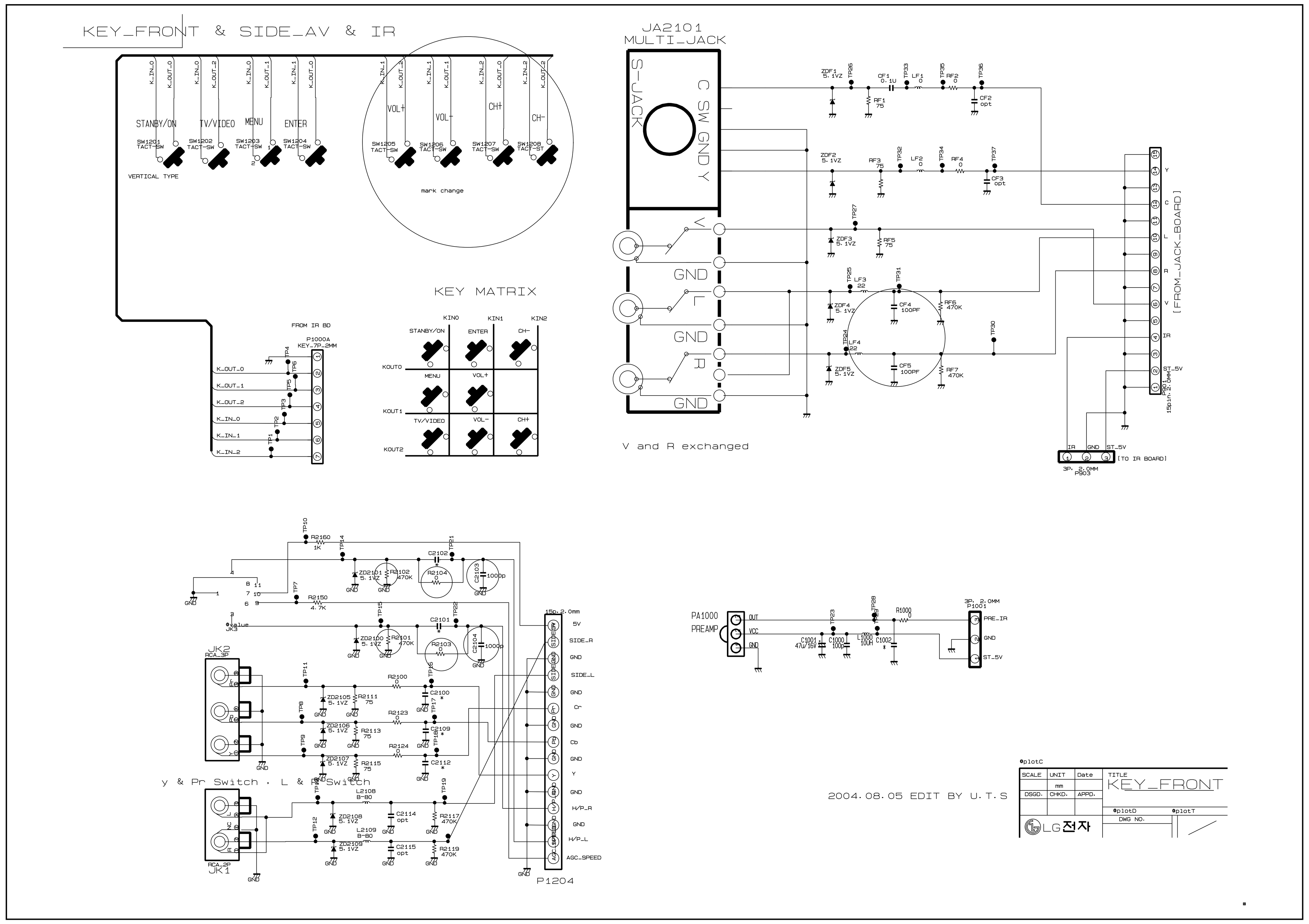




DN-32LP10 / DN-37LP10 / DN-42LP10

CARD SLOT

DTRC ORIGIN N. G. J & L. C. S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JA2101
MULTI_JACK
S-JACK
C SW GND Y
V
GND
L
GND
R
GND
V and R exchanged
STANBY/ON
TV/VIDEO
MENU
ENTER
VOL+
VOL-
CH+
CH-
VERTICAL TYPE
mark change
KEY MATRIX
FROM IR BD
P1000A
KEY_7P_2MM
K_OUT_0
K_OUT_1
K_OUT_2
K_IN_0
K_IN_1
K_IN_2
KOUT0
KOUT1
KOUT2
KIN0
KIN1
KIN2
[FROM_JACK_BOARD]
P901
15pin.2.0MM
[TO IR BOARD]
3P. 2.0MM
P903
PA1000
PREAMP
3P. 2.0MM
P1001
PRE_IR
GND
ST_5V
JK2
RCA_3P
JK3
y & Pr Switch . L & R Switch
RCA_2P
JK1
P1204
5V
SIDE_R
GND
SIDE_L
GND
Cr
GND
Cb
GND
Y
GND
H/P_R
GND
H/P_L
AGC_SPEED
2004.08.05 EDIT BY U.T.S
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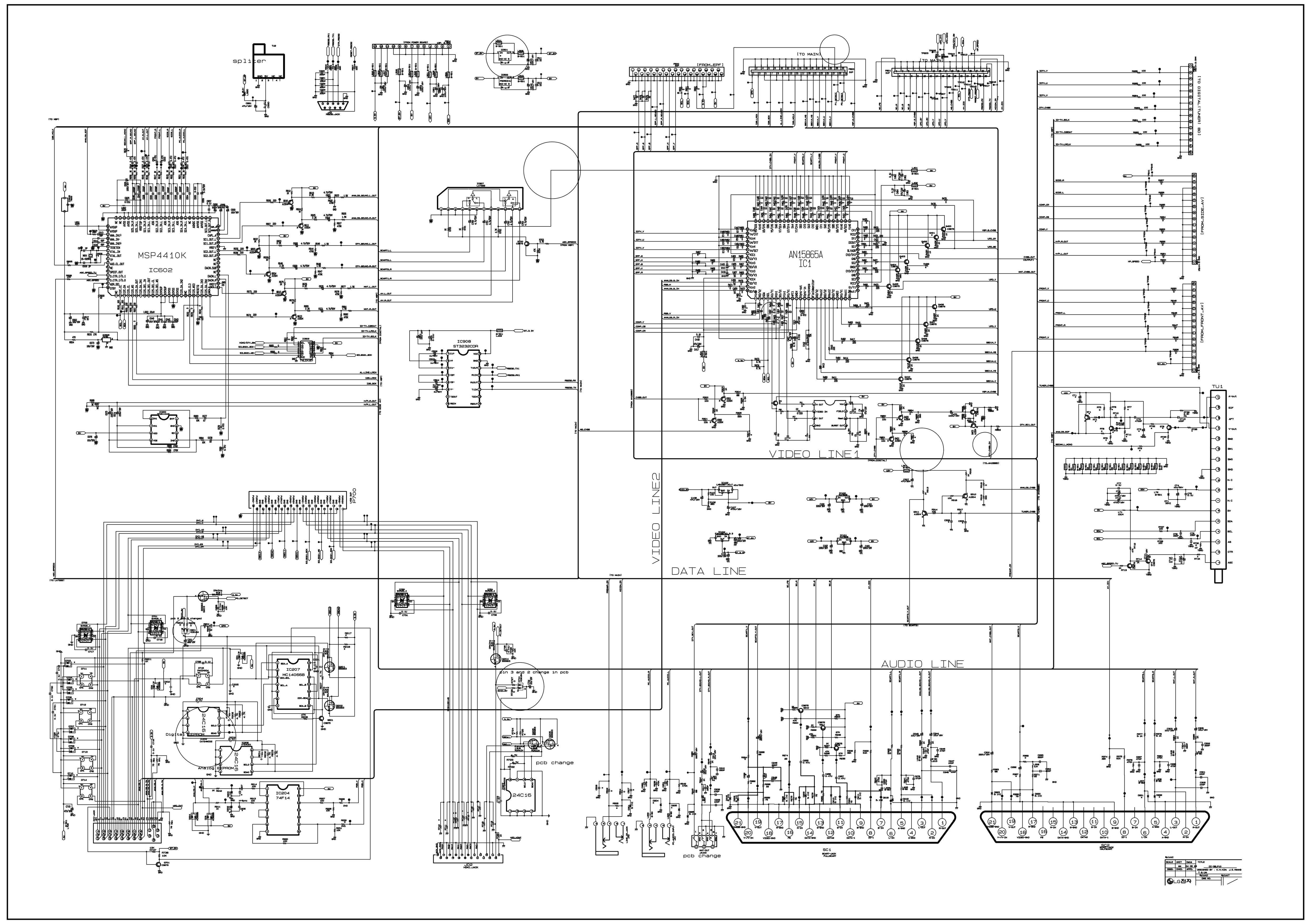
UNIT
Date
TITLE
KEY_FRONT
mm
DSGD.
CHKD.
APPD.
DWG NO.
LG전자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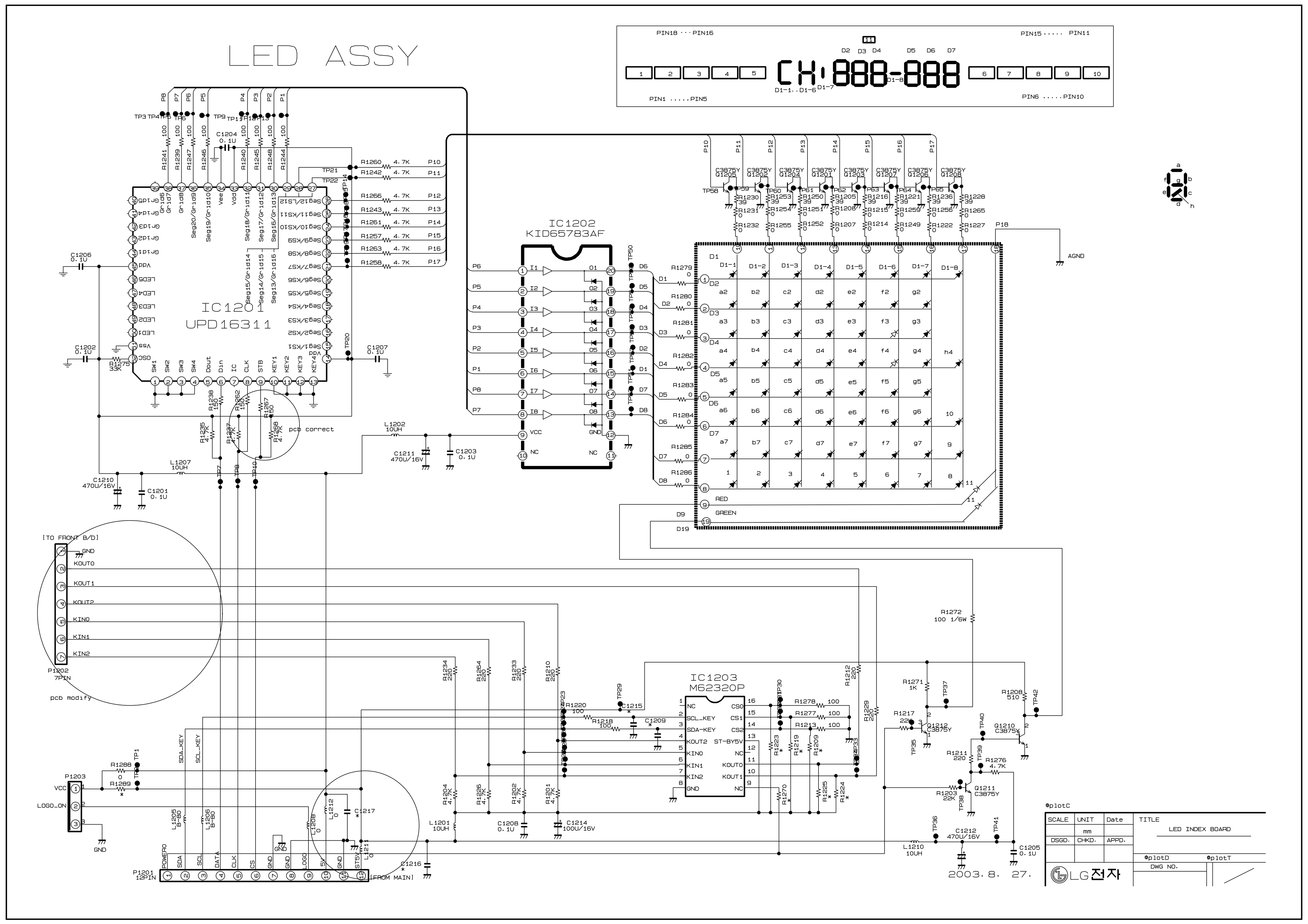
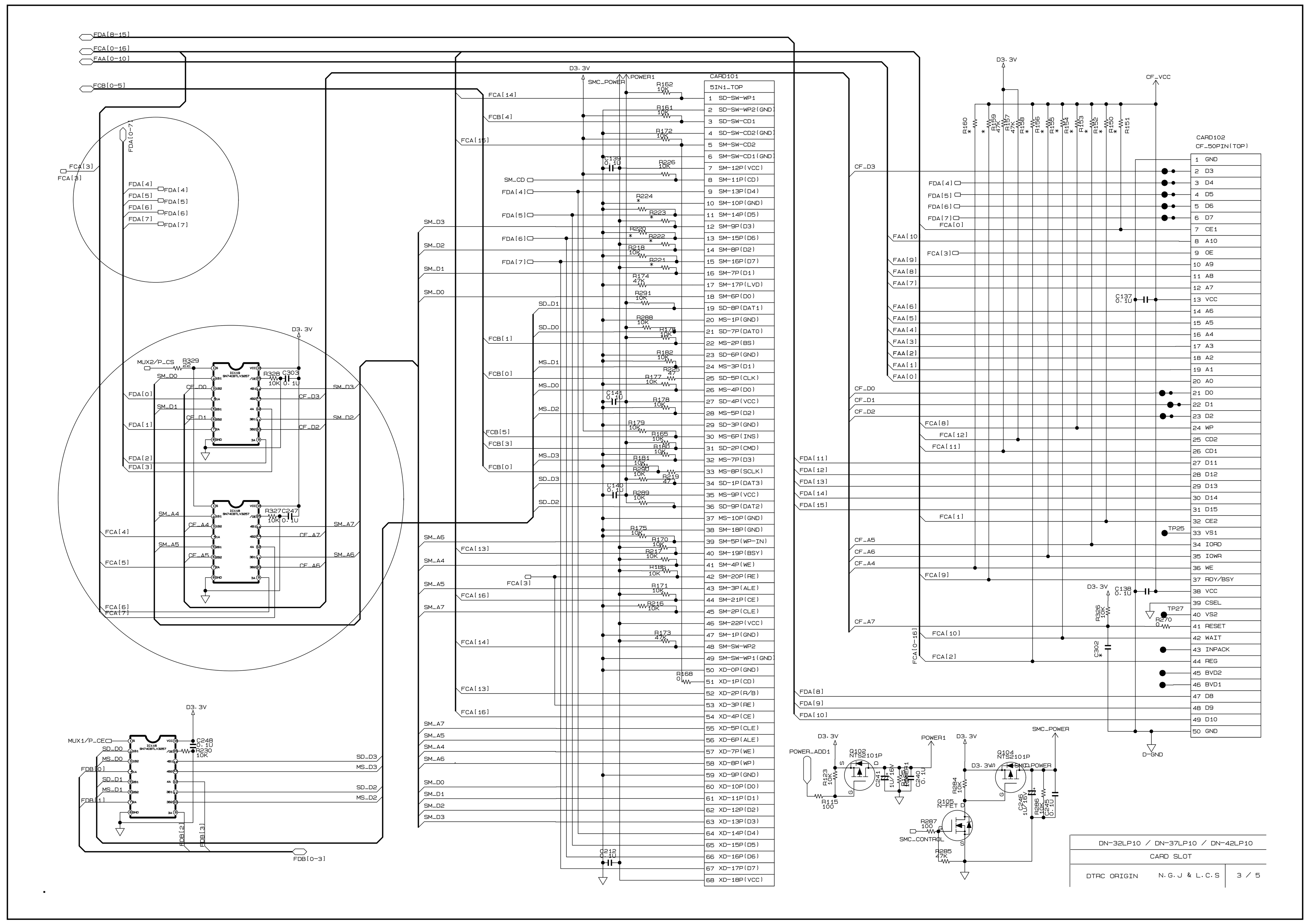
AN15865A
IC1
IC908
ST3232CDR
IC207
MC14066B
24C16
Digital EEPROM
Analog EEPROM
IC204
74F14
P700
VIDEO LINE1
VIDEO LINE2
DATA LINE
AUDIO LINE
[FROM_EPF]
[TO MAIN]
[TO DIGITAL(TUNER) BD]
[FROM_SIDE_AV]
[FROM_FRONT_AV]
TU1
pin 3 and 2 change in pcb
pcb change
SC1
SC2
LG전자


LED ASSY
PIN18 ··· PIN16
PIN15 ····· PIN11
PIN1 ·····PIN5
PIN6 ·····PIN10
CH:888-888
IC1201
UPD16311
IC1202
KID65783AF
IC1203
M62320P
pcb correct
[TO FRONT B/D]
P1202
7PIN
pcb modify
P1203
VCC
LOGO_ON
P1201
12PIN
[FROM MAIN]
RED
GREEN
AGND
2003. 8. 27.
SCALE
UNIT
Date
TITLE
LED INDEX BOARD
mm
DSGD.
CHKD.
APPD.
DWG NO.
LG전자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FCA[0-16]
FAA[0-10]
FCB[0-5]
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MUX1/P_CE
D3.3V
SMC_POWER
POWER1
CARD101
5IN1_TOP
CARD102
CF_50PIN(TOP)
CF_VCC
POWER_ADD1
Q102
NTS2101P
Q104
NTS2101P
Q105
N-FET
SMC_CONTROL
D-GND
DN-32LP10 / DN-37LP10 / DN-42LP10
CARD SLOT
DTRC ORIGIN
N.G.J & L.C.S
3 / 5


from digital
to LED
ICS1
PW 181
SCALER
IC304
S2310
ICF1
ESMT
ICF2
IC601
SiI9021
X98014
IC500
IC1
EPROM
IC5
SDA6001
IC4
CB1 1608
P991
AD016
M2_RESET
DEBUGGER HEADER
P901
FOR 26" LCD PANEL
L : VPC SELECT
H : DIGITAL SELECT
NMI
RESET

Fer, 2006
P/NO :
Printed in Korea